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§ 420.137 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT): The limitations shall be the same as those specified for conventional pollutants (which are defined in 40 CFR 401.16) in § 420.132 for the best practicable control technology currently available (BPT).

PART 421—NONFERROUS METALS MANUFACTURING POINT SOURCE CATEGORY

GENERAL PROVISIONS

Sec.

- 421.1 Applicability.
- 421.2 [Reserved]
- 421.3 Monitoring and reporting requirements.
- 421.4 Compliance date for pretreatment standards for existing sources (PSES).
- 421.5 Removal allowances for pretreatment standards.

Subpart A—Bauxite Refining Subcategory

- 421.10 Applicability; description of the bauxite refining subcategory.
- 421.11 Specialized definitions.
- 421.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.14 [Reserved]
- 421.15 Standards of performance for new sources.
- 421.16 Pretreatment standards for new sources.

Subpart B—Primary Aluminum Smelting Subcategory

- 421.20 Applicability: description of the primary aluminum smelting subcategory.
- 421.21 Specialized definitions.

- 421.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable
- 421.24 Standards of performance for new sources.
- 421.25 [Reserved]
- 421.26 Pretreatment standards for new sources.
- 421.27 [Reserved]

Subpart C—Secondary Aluminum Smelting Subcategory

- 421.30 Applicability: Description of the secondary aluminum smelting subcategory.
- 421.31 Specialized definitions.
- 421.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.34 Standards of performance for new sources.
- 421.35 Pretreatment standards for existing sources
- 421.36 Pretreatment standards for new sources.
- 421.37 [Reserved]

Subpart D—Primary Copper Smelting Subcategory

- 421.40 Applicability: Description of the primary copper smelting subcategory.
- 421.41 Specialized definitions.
- 421.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.44 Standards of performance for new sources
- 421.45 [Reserved]
- 421.46 Pretreatment standards for new sources.
- 421.47 [Reserved]

Subpart E—Primary Electrolytic Copper Refining Subcategory

- 421.50 Applicability: Description of the primary electrolytic copper refining subcategory.
- 421.51 Specialized definitions.
- 421.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.54 Standards of performance for new sources.
- 421.55 [Reserved]
- 421.56 Pretreatment standards for new sources.
- 421.57 [Reserved]

Subpart F—Secondary Copper Subcategory

- 421.60 Applicability: Description of the secondary copper subcategory.
- 421.61 Specialized definitions.
- 421.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.64 Standards of performance for new sources.
- 421.65 Pretreatment standards for existing sources.
- 421.66 Pretreatment standards for new sources.
- 421.67 [Reserved]

Subpart G—Primary Lead Subcategory

- 421.70 Applicability: Description of the primary lead subcategory.
- 421.71 Specialized definitions.
- 421.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.74 Standards of performance for new sources.
- 421.75 Pretreatment standards for existing sources.

- 421.76 Pretreatment standards for new sources.
- 421.77 [Reserved]

Subpart H—Primary Zinc Subcategory

- 421.80 Applicability: Description of the primary zinc subcategory.
- 421.81 Specialized definitions.
- 421.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.84 Standards of performance for new sources.
- 421.85 Pretreatment standards for existing sources.
- 421.86 Pretreatment standards for new sources.
- 421.87 [Reserved]

Subpart I—Metallurgical Acid Plants Subcategory

- 421.90 Applicability: Description of the metallurgical acid plants subcategory.
- 421.91 Specialized definitions.
- 421.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.94 Standards of performance for new sources.
- 421.95 Pretreatment standards for existing sources.
- 421.96 Pretreatment standards for new sources.
- 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

- 421.100 Applicability: Description of the primary tungsten subcategory.
- 421.101 Specialized definitions.
- 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.104 Standards of performance for new sources.

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- 421.105 Pretreatment standards for existing sources.
- 421.106 Pretreatment standards for new sources.
- 421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

- 421.110 Applicability: Description of the primary columbium-tantalum subcategory. 421.111 Specialized definitions.
- 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.114 Standards of performance for new sources.
- 421.115 Pretreatment standards for existing sources.
- 421.116 Pretreatment standards for new sources.
- 421.117 [Reserved]

Subpart L—Secondary Silver Subcategory

- 421.120 Applicability: Description of the secondary silver subcategory.
- 421.121 Specialized definitions.
- 421.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.124 Standards of performance for new sources.
- 421.125 Pretreatment standards for existing sources.
- 421.126 Pretreatment standards for new sources.
- 421.127 [Reserved]

Subpart M—Secondary Lead Subcategory

- 421.130 Applicability: Description of the secondary lead subcategory.
- 421.131 Specialized definitions.
- 421.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

- 421.134 Standards of performance for new sources.
- 421.135 Pretreatment standards for existing sources.
- 421.136 Pretreatment standards for new sources.
- 421.137 [Reserved]

Subpart N—Primary Antimony Subcategory

- 421.140 Applicability: Description of the primary antimony subcategory.
- 421.141 Specialized definitions.
- 421.142 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.143 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.144 Standards of performance for new sources.
- 421.145 [Reserved]
- 421.146 Pretreatment standards for new sources.
- 421.147 [Reserved]

Subpart O—Primary Beryllium Subcategory

- $421.150\,$ Applicability: Description of the primary beryllium subcategory.
- 421.151 Specialized definitions.
- 421.152 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.153 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.154 Standards of performance for new sources.
- 421.155 [Reserved]
- 421.156 Pretreatment standards for new sources.
- 421.157 [Reserved]

Subpart P—Primary and Secondary Germanium and Gallium Subcategory

- 421.180 Applicability: Description of the primary and secondary germanium and gallium subcategory.
- 421.181 Specialized definitions.
- 421.182 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

- available technology economically achievable.
- 421.184 Standards of performance for new sources.
- 421.185 Pretreatment standards for existing sources.
- 421.186 Pretreatment standards for new sources.
- 421.187 [Reserved]

Subpart Q—Secondary Indium Subcategory

- 421.190 Applicability: Description of the secondary indium subcategory.
- 421.191 Specialized definitions.
- 421.192-421.193 [Reserved]
- 421.194 Standards of performance for new sources.
- 421.195 Pretreatment standards for existing sources.
- 421.196 Pretreatment standards for new sources.
- 421.197 [Reserved]

Subpart R—Secondary Mercury Subcategory

- 421.200 Applicability: Description of the secondary mercury subcategory.
- 421.201 Specialized definitions.
- 421.202-421.203 [Reserved]
- 421.204 Standards of performance for new sources.
- 421.205 [Reserved]
- 421.206 Pretreatment standards for new sources.
- 421.207 [Reserved]

Subpart S—Primary Molybdenum and Rhenium Subcategory

- 421.210 Applicability: Description of the primary molybdenum and rhenium subcategory.
- 421.211 Specialized definitions.
- 421.212 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.213 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.214 Standards of performance for new sources.
- 421.215 [Reserved]
- 421.216 Pretreatment standards for new sources.
- 421.217 [Reserved]

Subpart T—Secondary Molybdenum and Vanadium Subcategory

- 421.220 Applicability: Description of the secondary molybdenum and vanadium subcategory.
- 421.221 Specialized definitions.
- 421.222 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.223 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.224 Standards of performance for new sources.
- 421.225 [Reserved]
- 421.226 Pretreatment standards for new sources.
- 421.227 [Reserved]

Subpart U—Primary Nickel and Cobalt Subcategory

- 421.230 Applicability: Description of the primary nickel and cobalt subcategory.
- 421.231 Specialized definitions.
- 421.232 Effuent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.233 Effuent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.234 Standards of performance for new sources.
- 421.235 [Reserved]
- 421.236 Pretreatment standards for new sources.
- 421.237 [Reserved]

Subpart V—Secondary Nickel Subcategory

- 421.240 Applicability: Description of the secondary nickel subcategory.
- 421.241 Specialized definitions.
- 421.242–421.243 [Reserved]
- 421.244 Standards of performance for new sources.
- 421.245 Pretreatment standards for existing sources.
- 421.246 Pretreatment standards for new sources.
- 421.247 [Reserved]

Subpart W—Primary Precious Metals and Mercury Subcategory

421.250 Applicability: Description of the primary precious metals and mercury subcategory.

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- 421.251 Specialized definitions.
- 421.252 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.253 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.254 Standards of performance for new sources.
- 421.255 [Reserved]
- 421.256 Pretreatment standards for new sources.
- 421.257 [Reserved]

Subpart X—Secondary Precious Metals Subcategory

- 421.260 Applicability: Description of the secondary precious metals subcategory.
- 421.261 Specialized definitions.
- 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.264 Standards of performance for new sources.
- $421.265\,$ Pretreatment standards for existing sources.
- 421.266 Pretreatment standards for new sources.
- 421.267 [Reserved]

Subpart Y—Primary Rare Earth Metals Subcategory

- 421.270 Applicability: Description of the primary rare earth metals subcategory.
- 421.271 Specialized definitions.
- 421.272-421.273 [Reserved]
- 421.274 Standards of performance for new sources.
- 421.275 Pretreatment standards for existing sources.
- 421.276 Pretreatment standards for new sources.
- 421.277 [Reserved]

Subpart Z—Secondary Tantalum Subcategory

- 421.280 Applicability: Description of the secondary tantalum subcategory.
- 421.281 Specialized definitions.
- 421.282 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

- practicable control technology currently available.
- 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.284 Standards of performance for new sources.
- 421.285 [Reserved]
- 421.286 Pretreatment standards for new sources.
- 421.287 [Reserved]

Subpart AA—Secondary Tin Subcategory

- 421.290 Applicability: Description of the secondary tin subcategory
- 421.291 Specialized definitions.
- 421.292 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.293 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.294 Standards of performance for new sources.
- 421.295 Pretreatment standards for existing sources.
- 421.296 Pretreatment standards for new sources.
- 421.297 [Reserved]

Subpart AB—Primary and Secondary Titanium Subcategory

- 421.300 Applicability: Description of the primary and secondary titanium subcategory.
- 421.301 Specialized definitions.
- 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.303 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.304 Standards of performance for new sources.
- 421.305 Pretreatment standards for existing sources.
- 421.306 Pretreatment standards for new sources.
- 421.307 [Reserved]

Subpart AC—Secondary Tungsten and Cobalt Subcategory

421.310 Applicability: Description of the secondary tungsten and cobalt subcategory.

421 311 Specialized definitions

- 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.313 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.314 Standards of performance for new sources.
- 421.315 Pretreatment standards for existing sources.
- 421.316 Pretreatment standards for new sources.

421.317 [Reserved]

Subpart AD—Secondary Uranium Subcategory

- 421.320 Applicability: Description of the secondary uranium subcategory.
- 421.321 Specialized definitions.
- 421.322 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available
- 421.323 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.324 Standards of performance for new sources.
- 421.325 [Reserved] 421.326 Pretreatment standards for new sources.
- 421.327 [Reserved]

Subpart AE—Primary Zirconium and Hafnium Subcategory

- 421.330 Applicability: Description of the primary zirconium and hafnium subcategory.
- 421.331 Specialized definitions.
- Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.333 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.334 Standards of performance for new sources.
- 421.335 [Reserved]
- 421.336 Pretreatment standards for new sources.
- 421.337 [Reserved]

AUTHORITY: Secs. 301, 304 (b), (c), (e), and (g), 306 (b) and (c), 307 (b) and (c), 308 and 501

of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972. as amended by the Clean Water Act of 1977) and the Water Quality Act of 1987 (the "Act"); 33 U.S.C. 1311, 1314 (b), (c), (e), and (g), 1316 (b) and (c), 1317 (b) and (c), 1318 and 1361; 86 Stat. 816, Pub. L. 92-500; 91 Stat. 1567, Pub. L. 95-217; 101 Stat. 7, Pub. L. 100-4.

Source: 49 FR 8790, Mar. 8, 1984, unless otherwise noted.

GENERAL PROVISIONS

§ 421.1 Applicability.

This part applies to facilities producing primary metals from ore concentrates and recovering secondary metals from recycle wastes which discharge or may discharge pollutants to waters of the United States or which introduce or may introduce pollutants into a publicly owned treatment works. The applicability of this part to alloying or casting of nonferrous metals is limited to alloying or casting of hot metal directly from the nonferrous metals manufacturing process without cooling. Remelting followed alloying or cooling is included in the aluminum forming, nonferrous metals forming, or metal molding and casting point source categories.

§ 421.2 [Reserved]

§421.3 Monitoring and reporting re-

The following special monitoring requirements apply to all facilities controlled by this regulation:

- (a) The monthly average regulatory values shall be the basis for the monthly average discharge in direct discharge permits and for pretreatment standards. Compliance with the monthly discharge limit is required regardless of the number of samples analyzed and averaged.
- (b) Periodic analysis for cyanide are not required for a facility in the primary beryllium subcategory (subpart O of this part) when both of the following conditions are met:
- (1) The first wastewater sample taken in each calandar year has been analyzed and found to contain less than 0.07 mg/1 cyanide.
- (2) The owner or operator of the primary beryllium manufacturing facility

certifies in writing to the POTW authority or permit issuing authority that cyanide is neither generated nor used in the beryllium manufacturing process employed at that facility.

[49 FR 8790, Mar. 8, 1984, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.4 Compliance date for pretreatment standards for existing sources (PSES).

The PSES compliance deadline in subparts A through M is March 8, 1987. The PSES compliance deadline for plants in subparts N through AE is September 20, 1988.

[50 FR 52776, Dec. 26, 1985]

§ 421.5 Removal allowances for pretreatment standards.

Removal allowances pursuant to 40 CFR 403.7(a) may be granted for the toxic metals limited in 40 CFR part 421 when used as indicator pollutants.

Subpart A—Bauxite Refining Subcategory

§ 421.10 Applicability; description of the bauxite refining subcategory.

The provisions of this subpart are applicable to discharges resulting from the refining of bauxite to alumina by the Bayer process or by the combination process.

[39 FR 12825, Apr. 8, 1974]

§ 421.11 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this subpart.
- (b) The term *bauxite* shall mean ore containing alumina monohydrate or alumina trihydrate which serves as the principal raw material for the production of alumina by the Bayer process or by the combination process.
- (c) The term *product* shall mean alumina
- (d) For all impoundments the term within the impoundment for purposes of calculating the volume of process wastewater which may be discharged, shall mean the surface area within the impoundment at the maximum capac-

ity plus the area of the inside and outside slopes of the impoundment dam and the surface area between the outside edge of the impoundment dam and seepage ditches upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowance for external appurtenances to the impoundment shall not be more than 30 percent of the water surface area within the impoundment dam at maximum capacity.

(e) The term *pond water surface area* for the purpose of calculating the volume of waste water shall mean the area within the impoundment for rainfall and the actual water surface area for evaporation.

[39 FR 12825, Apr. 8, 1974, as amended at 40 FR 48348, Oct. 15, 1975]

§ 421.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart, shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

- (a) Subject to the provisions of paragraph (b) of this section, the following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart after application of the best practicable control technology currently available: There shall be no discharge of process waste water pollutants to navigable waters.
- (b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by

the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974, as amended at 50 FR 38342, Sept. 20, 1985]

§ 421.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subject to the provisions of paragraph (b) of this section, the following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974, as amended at 50 FR 38342, Sept. 20, 1985]

§421.14 [Reserved]

§ 421.15 Standards of performance for new sources.

(a) Subject to the provisions of paragraph (b) of this section, the following standards of performance establish the quantity or quality of pollutants or pollutant properties which may be discharged by a new source subject to the provisions of this subpart: There shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974]

§ 421.16 Pretreatment standards for new sources.

Any new sources subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[50 FR 38342, Sept. 20, 1985]

Subpart B—Primary Aluminum Smelting Subcategory

§ 421.20 Applicability: description of the primary aluminum smelting subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of aluminum from alumina in the Hall-Heroult process.

§ 421.21 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter, shall apply to this subpart.
- (b) The term *product* shall mean hot aluminum metal.
- (c) If a permittee chooses to analyze for benzo(a)pyrene using any EPA-approved method, any "non-detected" measurements shall be considered zeroes for the purpose of determining compliance with this regulation.
- $[49~\mathrm{FR}~8792,\,\mathrm{Mar}.~8,\,1984,\,\mathrm{as}$ amended at 52 FR 25556, July 7, 1987]

§ 421.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available (BPT):

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—kg/kkg of product	
	English units—lbs/ thousand lbs of product	
Fluoride	2.0 3.0 (¹)	1.0 1.5 (¹)

¹ Within the range of 6 to 9 at all times.

 $[49~\mathrm{FR}~8792,~\mathrm{Mar.}~8,~1984;~49~\mathrm{FR}~29794,~\mathrm{July}~24,~1984]$

§ 421.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air Pollution Control

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of paste produced	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride	0.005 .263 .075 .831 8.092	0.002 .117 .050 .369 3.591

(b) Subpart (B)—Anode Contact Cooling and Briquette Quenching.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes cast	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride	0.007 .403 .115 1.277 12.440	0.003 .180 .077 .566 5.518

(c) Subpart (B)—Anode Bake Plant Wet Air Pollution Control (Closed Top Ring Furnace).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of anodes baked	
Benzo(a)pyrene	0.146 8.346 2.378 26.420 257.300	0.067 3.719 1.600 11.720 114.200

(d) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top Ring Furnace With Spray Tower Only).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	0.002 .097 .028 .306 2.975	0.001 .043 .019 .136 1.320

(e) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top

Ring Furnace With Wet Electrostatic Precipitator and Spray Tower).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	0.025	0.011
Antimony	1.409	.628
Nickel	.402	.270
Aluminum	4.461	1.979
Fluoride	43.440	19.270

(f) Subpart B—Anode Bake Plant Wet Air Pollution Control (Tunnel Kiln).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	0.038	0.018
Antimony	2.197	.979
Nickel	.626	.421
Aluminum	6.953	3.084
Fluoride	67.710	30.050

(g) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of cryolite re covered	
1.181 420.400	0.547 189.200
157.600	70.060
80.570	35.030
273.200	122.600
29,430.000	13,310.000
	mg/kg (pount pounds) or covered 1.181 420.400 157.600 80.570 273.200

(h) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of covered	ds per million f cryolite re-
Benzo(a)pyrene	1.181	0.547
Antimony	67.610	30.120
Cyanide	157.600	70.060
Nickel	19.270	12.960
Aluminum	214.000	94.930
Fluoride	2,084.000	924.800

(i) Subpart B—Cathode Reprocessing (Operated With Wet Potline Scrubbing).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of covered	d per million f cryolite re-
Benzo(a)pyrene	.000	
Antimony	.000	.000
Cyanide	.000	.000
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000

(j) Subpart B—Potline Wet Air Pollution Control (Operated Without Cathode Reprocessing).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) (d per million of aluminum from electro- on
Benzo(a)pyrene	0.028	0.013
Antimony	1.618	.721
Nickel	.461	.310
Aluminum	5.120	2.271
Fluoride	49.860	22.130

(k) Subpart B—Potline Wet Air Pollution Control (Operated With Cathode Reprocessing and Not Commingled With Other Process or Nonprocess Waters).

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum produced from electro lytic reduction	
Benzo(a)pyrene	0.028	0.013
Antimony	10.060	4.525
Cyanide	3.771	1.676
Nickel	1.928	.838
Aluminum	6.537	2.933
Fluoride	703.900	318.500

(1) Potline Wet Air Pollution Control Cooperated With Cathode Reprocessing and Commingled With Other Process or Nonprocess Wastewaters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	0.028	0.013
Antimony	1.618	.721
Cyanide	3.771	1.676
Nickel	0.461	.310
Aluminum	5.120	2.271
Fluoride	49.860	22.130

(m) Subpart B—Potroom Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	0.056 3.204 .913 10.140 98.770	0.026 1.428 .614 4.499 43.830

(n) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Antimony 2.588 1.153 Nickel .738 .496 Aluminum 8.194 3.634			
Dounds of aluminum produced from electro lytic reduction	Pollutant or pollutant property	for any 1	for monthly
Antimony 2.588 1.153 Nickel .738 .496 Aluminum 8.194 3.634		pounds) of aluminu produced from electron	
Nickel .738 .496 Aluminum 8.194 3.634			0.021
Aluminum 8.194 3.634			
			3.634
			35.400

(o) Subpart B—Degassing Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride	(1) 5.036 1.435 15.940 155.300	(1) 2.244 .965 7.071 68.880

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\text{There}}}$ shall be no discharge allowance for this pollutant.

(p) Subpart B—Pot Repair and Pot Soaking.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	d per million of aluminum from electro- on
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride	.000 .000 .000 .000	.000 .000 .000

(q) Subpart B—Direct Chill Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million of aluminum m direct chill
Benzo(a)pyrene	(¹) 2.565 .731	(¹) 1.143 .492

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Aluminum	8.120 79.080	3.602 35.090

¹ There shall be no discharge allowance for this pollutant.

(r) Subpart B—Continuous Rod Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	d per million of aluminum m rod casting
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride	(1) .201 .057 .636 6.188	(1) .089 .038 .282 2.746

¹ There shall be no discharge allowance for this pollutant.

(s) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene	.000 .000 .000 .000	.000 .000 .000

 $[49~\mathrm{FR}~8792,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~52~\mathrm{FR}~25556,~\mathrm{July}~7,~1987]$

§ 421.24 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air.

POLLUTION CONTROL—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of paste produced	
Benzo(a)pyreneAntimony	.000 .000	.000

POLLUTION CONTROL—NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (poun pounds) of	d per million anodes cast
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	0.007 .403 .115 1.277 12.440 2.090 3.135	0.003 .180 .077 .566 5.518 2.090 2.508

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million nodes baked
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	.000 .000 .000 .000 .000 .000 .000	

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of cryolite r covered	
Benzo(a)pyrene	1.181	0.547

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Antimony	420.400	189.200
Cyanide	157.600	70.060
Nickel	80.570	35.030
Aluminum	273.200	122.600
Fluoride	29,430.000	13,310.000
Oil and grease	350.300	350.300
Total suspended solids	2,172.000	945.800
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of covered	d per million f cryolite re-
Benzo(a)pyrene	1.181	0.547
Antimony	67.610	30.120
Cyanide	157.600	70.060
Nickel	19.270	12.960
Aluminum	214.000	94.930
Fluoride	2,084.000	924.800
Oil and grease	350.300	350.300
Total suspended solids	2,172.000	945.800
pH	(¹)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart B—Potline Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electron lytic reduction	
Benzo(a)pyrene	.000 .000 .000 .000 .000	.000 .000 .000 .000
Total suspended solidspH	.000 (¹)	.000 (¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.0 to 10.0 at all times.}$

(g) Subpart B—Potroom Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Bonzo(a)pyropo	.000	
Benzo(a)pyrene	.000	.000
Antimony		
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per millior luminum pro- n electrolytic
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	0.045 2.588 .738 8.194 79.790 13.410 20.120 (¹)	0.021 1.153 .496 3.634 35.400 13.410 16.090

¹ Within the range of 7.0 to 10.0 at all times.

(i) Subpart B—Degassing Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		of aluminum from electro-
Benzo(a)pyrene	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹ Within the range of 7.0 to 10.0 at all times.

(j) Subpart B—Pot Repair and Pot Soaking.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	.000 .000 .000 .000 .000 .000 .000	

¹ Within the range of 7.0 to 10.0 at all times.

(k) Subpart B—Direct Chill Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminun product from direct chill casting	
Benzo(a)pyrene	(1) 2.565 .731 8.120 79.080 13.290 19.940	(1) 1.143 .492 3.602 35.090 13.290 15.950
pH	(2)	(2)

¹There shall be no discharge allowance for this pollutant. ²The pH shall be maintained within the range of 7.0 to 10.0 at all times except for those situations when this waste is discharged separately and without commingling with any other waste-water in which case the pH shall be within the range of 6.0 to 10.0 at all times.

(1) Subpart B—Continuous Rod Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million of aluminum m rod casting
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	(1) .201 .057 .636 6.188 1.040 1.560	(1) .089 .038 .282 2.746 1.040 1.248 (2)

¹There shall be no discharge allowance for this pollutant. ²Within the range of 7.0 to 10.0 at all times.

(m) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminun product from stationan casting or shot casting	
Benzo(a)pyrene	.000	
Antimony	.000	.000
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

[49 FR 8792, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 52 FR 25558, July 7, 1987]

§ 421.25 [Reserved]

§ 421.26 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary aluminum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of paste produced	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes cast	
Benzo(a)pyrene Nickel	0.007 .115	0.003 .077

PSNS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	12.440	5.518

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	.000 .000 .000	.000

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

PSNS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of cryolite re- covered	
1.181 157.600 80.570 29.430.000	0.547 70.060 35.030 13,310.000
	mg/kg (pound pounds) or covered

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cryolite re- covered	
Benzo(a)pyrene	1.181	0.547
Cyanide	157.600	70.060
Nickel	19.270	12.960
Fluoride	2,084.000	924.800

(f) Subpart B—Potline Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

(g) Subpart B—Potroom Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

(h) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	0.045 .738 79.790	0.021 .496 35.400

(i) Subpart B—Degassing Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminunt produced from electron lytic reduction	
Benzo(a)pyrene	.000 .000 .000	.000

(j) Subpart B—Pot Repair and Pot Soaking.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	.000 .000 .000	.000

(k) Subpart B—Direct Chill Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum product from direct chill casting	
Benzo(a)pyrene	(¹) .731 79.080	(¹) .492 35.090

¹ There shall be no discharge allowance for this pollutant.

(1) Subpart B—Continuous Rod Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) (d per million of aluminum m rod casting
Benzo(a)pyrene	(¹) .057 6.188	(¹) .038 2.746

 $^{^{\}mbox{\scriptsize 1}}$ There shall be no discharge allowance for this pollutant.

(m) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene	.000 .000 .000	.000

[49 FR 8792, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 52 FR 25559, July 7, 1987]

§ 421.27 [Reserved]

Subpart C—Secondary Aluminum Smelting Subcategory

SOURCE: 49 FR 8796, Mar. 8, 1984, unless otherwise noted.

§ 421.30 Applicability: Description of the secondary aluminum smelting subcategory.

The provisions of this subpart are applicable to discharges resulting from the recovery, processing, and remelting of aluminum scrap to produce metallic aluminum alloys.

§ 421.31 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this subpart.
- (b) The term *product* shall mean hot aluminum metal.
- (c) At-the-source means at or before the commingling of delacquering scrubber liquor blowdown with other process or nonprocess wastewaters.

§ 421.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

- (a) The following limitations establish the quantity or quality of pollutants or pollutant properties, which may be discharged by a point source subject to the provisions of this subpart and which uses water for metal cooling, after application of the best practicable control technology currently available: There shall be no discharge of process wastewater pollutants to navigable waters.
- (b) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject

to the provisions of this subpart and which uses aluminum fluoride in its magnesium removal process ("demagging process"), after application of the best practicable control technology currently available: There shall be no discharge of process wastewater pollutants to navigable waters.

(c) The following limitations establish the quantity or quality of pollutants or pollutant properties controlled by this section, which may be discharged by a point source subject to the provisions of this subpart and which uses chlorine in its magnesium removal process, after application of the best practicable control technology currently available:

EFFLUENT LIMITATIONS

Effluent characteristic	Average of daily values for 30 consecutive days shall not exceed—
	Metric units (kilograms per 1,000 kg magnesium removed)
TSS	175
COD	6.5
pH	(1)

¹ Within the range of 7.5 to 9.0.

(d) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart and which processes residues by wet methods, after application of the best practical control technology currently available:

EFFLUENT LIMITATIONS

Average of daily values for 30 consecutive days shall not exceed—	
Metric units (kilograms per 1,000 kg of product)	
1.5	
0.4	
0.01	
1.0	
0.003	
1.0	
(1)	

¹ Within the range of 7.5 to 9.0.

§ 421.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of scrap dried	of aluminum
Lead Zinc	.000 .000 .000	.000 .000 .000

(b) Subpart C—Scrap Screening and Milling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	d's per million of aluminum reened and
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000

(c) Subpart C—Dross Washing.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per million pounds) of dross washed	
LeadZincAluminumAmmonia (as N)	3.043 11.090 66.410 1,449.000	1.413 4.565 29.450 636.900

(d) Subpart C—Demagging Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead	0.216 0.100	
Zinc	0.786	0.324
Aluminum	4.711	2.090
Ammonia (as N)	102.800	45.180

(e) Subpart C—Delacquering Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per million pounds) of aluminun delacquered	
LeadZincAluminumAmmonia (as N)	0.093 0.340 2.035 44.389	0.043 0.140 0.903 19.514
Total phenolics (4-AAP method) 1	0.004	

¹ At the source.

(f) Subpart C—Direct Chill Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum cas	
LeadZincAluminumAmmonia (as N)	.372 1.356 8.120 177.200	.173 .558 3.602 77.880

(g) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
Lead	0.019 0.068 0.409 8.931	0.009 0.028 0.182 3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chloride Demagging Wet Air Pollution Control is Practiced On Site).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000

(i) Subpart C—Stationary Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum cas	
Lead	.000 .000 .000	.000 .000 .000

(j) Subpart C—Shot Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000. 000. 000.

[49 FR 8796, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25559, July 7, 1987]

§421.34 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

NSPS

	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly
	day	average.
	ma/ka (nound	ds per million
		of aluminum
	scrap dried	or alaminam
	Corap arroa	
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times

(b) Subpart C-Scrap Screening and Milling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum reened and
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart C—Dross Washing.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million ross washed
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart C-Demagging Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		illion lbs) of demagged
Lead	0.216	0.100
Zinc	0.786	0.324
Aluminum	4.711	2.090
Ammonia (as N)	102.800	45.180
Total suspended solids	11.570	9.252
Oil and grease	7.710	7.710
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart C—Delacquering Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum
Lead	0.093	0.043
Zinc	0.340	0.140
Aluminum	2.035	0.903
Ammonia (as N)	44.389	19.514
Total phenolics (4-AAP meth-		
od) ¹	0.004	
Total suspended solids	4.995	3.996
Oil and grease	3.330	3.330
<u>pH</u>	(2)	(2)

(f) Subpart C-Direct Chill Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.372 1.356 8.120 177.200 19.940 13.290	.173 .558 3.602 77.880 15.950 13.290
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(g) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

¹ At the source. ² Within the range of 7.0 to 10.0 at all times.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		illion lbs) of um cast
LeadZinc	0.019 0.068	0.009 0.028
AluminumAmmonia (as N)	0.409 8.931	0.182 3.926
Total suspended solids	1.005	0.804
Oil and grease	0.670	0.670
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Practiced On Site).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

(j) Subpart C—Shot Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹ Within the range of 7.0 to 10.0 at all times.

[49 FR 8796, Mar. 8, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25559, July 7, 1987]

§ 421.35 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary aluminum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum
LeadZincAmmonia (as N)	.000 .000 .000	.000 .000 .000

(b) Subpart C—Scrap Screening and Milling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum reened and
LeadZincAmmonia (as N)	.000 .000 .000	.000 .000 .000

(c) Subpart C—Dross Washing.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dross washed	
Lead	3.043 11.090 1,449.000	1.413 4.565 636.000

(d) Subpart C—Demagging Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
LeadZincAmomonia (as N)	0.216 0.786 102.800	0.100 0.324 45.180

(e) Subpart C—Delacquering Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum d
Lead Zinc Ammonia (as N) Total phenolics (4–AAP) meth-	0.093 0.340 44.389	0.043 0.140 19.514
od) 1	0.004	

¹ At the source.

 $\begin{array}{cccc} \hbox{(f) Subpart C--Direct Chill Casting} \\ \hbox{Contact Cooling.} \end{array}$

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.372 1.356 177.200	.173 .558 77.800

(g) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
LeadZincAmomonia (as N)	0.019 0.068 8.931	0.009 0.028 3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling. (When Chlorine Demagging Wet Air Pollution Control is Practiced On Site.)

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000. 000. 000.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

(j) Subpart C—Shot Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000. 000. 000.

 $[49~\mathrm{FR}~8796,\,\mathrm{Mar}.~8,\,1984,\,\mathrm{as}$ amended at $49~\mathrm{FR}$ 29794, July 24, 1984; 52 FR 25560, July 7, 1987]

§ 421.36 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart

which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants introduced in secondary aluminum process wastewater into a POTW shall not exceed the following values:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum scrap dried	
Lead	200	000
Leau	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

(b) Subpart C—Scrap Screening and Milling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	ds per million of aluminum reened and
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

(c) Subpart C—Dross Washing.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dross washed	
Lead Zinc	.000 .000 .000	.000 .000 .000

(d) Subpart C—Demagging Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead Zinc Amomonia (as N)	0.216 0.786 102.800	0.100 0.324 45.180

(e) Subpart C—Delacquering Wet Air Pollution Control

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per mil pounds) of alumin delacquered	
Lead Zinc	0.093 0.340 44.389	0.043 0.140 19.514
od) 1	0.004	

1 At the source.

(f) Subpart C—Direct Chill Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
LeadZincAmmonia (as N)	.372 1.356 177.200	.173 .558 77.880

(g) Subpart C—Ingot Conveyor Casting Control Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
LeadZincAmomonia (as N)	0.019 0.068 8.931	0.009 0.028 3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control Is Practiced on Site).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000

(i) Subpart C—Stationary Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
LeadZinc	.000 .000 .000	.000 .000 .000

(j) Subpart C—Shot Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000 .000 .000

 $[49~\mathrm{FR}~8796,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~49~\mathrm{FR}$ 29794, July 24, 1984; 52 FR 25560, July 7, 1987]

§421.37 [Reserved]

Subpart D—Primary Copper Smelting Subcategory

Source: 49 FR 8800, Mar. 8, 1984, unless otherwise noted.

§ 421.40 Applicability: Description of the primary copper smelting subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from the primary smelting of copper from ore or ore concentrates. Primary copper smelting includes, but is not limited to, roasting, converting, leaching if preceded by a pyrometallurgical step, slag granula-

tion and dumping, fire refining, and the casting of products from these operations.

§ 421.41 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 apply to this subpart.
- (b) In the event that the waste streams covered by this subpart are combined for treatment or discharge with waste streams covered by Subparts E—Primary Electrolytic Copper Refining and/or Subpart I—Metallurgical Acid Plants, the quantity of each pollutant or pollutant property discharged shall not exceed the quantity of each pollutant or pollutant property which could be discharged if each waste stream were discharged separately.
- (c) For all impoundments constructed prior to the effective date of the interim final regulation (40 FR 8513), the term "within the impoundment," when used to calculate the volume of process wastewater which may be discharged, means the water surface area within the impoundment at maximum capacity plus the surface area of the inside and outside slopes of the impoundment dam as well as the surface area between the outside edge of the impoundment dam and any seepage ditch adjacent to the dam upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowances set forth above shall not exceed more than 30 percent of the water surface area within the impoundment dam at maximum capacity.
- (d) For all impoundments constructed on or after the effective date of the interim final regulation (the interim regulation was effective February 27, 1975; 40 FR 8513, February 27, 1975), the term "within the impoundment," for purposes of calculating the volume of process wastewater which may be discharged, means the water surface area within the impoundment at maximum capacity.

§ 421.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

(a) Except as provided in 40 CFR 125.30 through 125.32 and paragraph (b) of this section, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT): There shall be no discharge of process wastewater pollutants to navigable waters.

(b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 10-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10-year, 24-hour rainfall event, when such event occurs.

§ 421.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

- (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process wastewater pollutants into navigable waters.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is

equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

[49 FR 8800, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.44 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards: There shall be discharge of process wastewater pollutants into navigable waters.

§ 421.45 [Reserved]

§ 421.46 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary copper smelting process wastewater introduced into a POTW shall not exceed the following values: There shall be no discharge of process wastewater pollutants into a publicly owned treatment works.

§ 421.47 [Reserved]

Subpart E—Primary Electrolytic Copper Refining Subcategory

Source: 49 FR 8801, Mar. 8, 1984, unless otherwise noted.

§ 421.50 Applicability: Description of the primary electrolytic copper refining subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from the electrolytic refining of primary copper, including, but not limited to, anode casting performed at refineries which are not located on-site with a smelter, product casting, and by-product recovery.

§ 421.51 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations, and

methods of analysis set forth in 40 CFR part 401 apply to this subpart.

(b) The term *product* means electrolytically refined copper.

§ 421.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

EFFLUENT LIMITATIONS

Effluent characteristic	Maximum for any 1 day	Average of Daily values for 30 con- secutive days shall not ex- ceed
	(Metric units, kg/kkg of prod uct; English units, pounds per 1,000 lb of product)	
Total suspended solids Copper Cadmium Lead	0.100 0.0017 0.00006 0.0006	0.050 0.0008 0.00003 0.0026
Zinc	0.0012	0.0003
pH	(1)	(1)

¹ Within the range of 6.0 to 9.0.

§ 421.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart E—Casting Contact Cooling.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million copper cast
Arsenic Copper Nickel	.692 .638 .274	.309 .304 .184

(b) Subpart E—Anode and Cathode Rinse.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode cop per production	
Arsenic	.000	.000
Copper	.000	.000
Nickel	.000	.000

(c) Subpart E—Spent Electrolyte.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of copper cath ode production	
Arsenic	.068	.031
Copper	.063	.030
Nickel	.027	.018

(d) Subpart E—Casting Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of casting production	
Arsenic	.000	.000
Copper	.000	.000
Nickel	.000	.000

(e) Subpart E—By-Product Recovery.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of product re- covered from electrolytic slimes processing	
Arsenic	.000 .000 .000	.000 .000 .000

[49 FR 8801, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.54 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart E—Casting Contact Cooling.

NSPS

_	_	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cast	
Arsenic	.692	.309
Nickel	.274	.184
Total suspended solids	7.470	5.976
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart E—Anode and Cathode Rinse.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of per product	cathode cop-
Arsenic	.000 .000 .000 .000	.000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart E—Spent Electrolyte.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cath ode production	
Arsenic	.068	.031
Copper	.063	.030
Nickel	.027	.018
Total suspended solids	.735	.588
pH	(1)	(1)

¹ Within the range 7.5 to 10.0 at all times.

(d) Subpart E—Casting Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million casting pro-
Arsenic	.000 .000 .000 .000	.000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart E—By-Product Recovery.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of product re covered from electrolytic slimes processing	
Arsenic	.000 .000 .000 .000 (¹)	.000 .000 .000 .000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49 \; \mathrm{FR} \; 8801, \; \mathrm{Mar.} \; 8, \; 1984, \; \mathrm{as} \; \mathrm{amended} \; \mathrm{at} \; 49 \; \mathrm{FR} \; 29795, \; \mathrm{July} \; 24, \; 1984]$

§421.55 [Reserved]

§ 421.56 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of

wastewater pollutants in primary electrolytic copper refining process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart E—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cast	
Arsenic	.692 .638 .274	.309 .304 .184

(b) Subpart E—Anode and Cathode Rinse.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode cop- per production	
Arsenic	.000 .000 .000	.000 .000 .000

(c) Subpart E—Spent Electrolyte.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cathode cop per production	
Arsenic	.068 .063 .027	.031 .030 .018

(d) Subpart E—Casting Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of casting pro duction	
Arsenic	.000 .000 .000	.000 .000 .000

(e) Subpart E—By-Product Recovery.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of product re- covered from electrolytic slimes processing	
Arsenic	.000 .000 .000	.000 .000 .000

 $[49~\mathrm{FR}~8801,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~49~\mathrm{FR}~29795,~\mathrm{July}~24,~1984]$

§ 421.57 [Reserved]

Subpart F—Secondary Copper Subcategory

SOURCE: 49 FR 8802, Mar. 8, 1984, unless otherwise noted.

§ 421.60 Applicability: Description of the secondary copper subcategory.

The provisions of this subpart are applicable to discharges resulting from the recovery, processing, and remelting of new and used copper scrap and residues to produce copper metal and copper alloys, but are not applicable to continuous rod casting.

§421.61 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) For all impoundments constructed prior to the effective date of this regulation the term "within the impoundment" when used for purposes of calculating the volume of process wastewater which may be discharged shall mean the water surface area within the impoundment at maximum capacity plus the surface area of the inside and outside slopes of the impoundment dam as well as the surface area between the outside edge of the impoundment dam and any seepage ditch immediately adjacent to the dam upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowances set forth above shall not be

more than 30 percent of the water surface area within the impoundment dam at maximum capacity.

- (c) For all impoundments constructed on or after the effective date of this regulation, the term "within the impoundment" for purposes of calculating the volume of process wastewater which may be discharged shall mean the water surface area within the impoundment at maximum capacity.
- (d) The term pond water surface area when used for the purpose of calculating the volume of wastewater which may be discharged shall mean the water surface area of the pond created by the impoundment for storage of process wastewater at normal operating level. This surface shall in no case be less than one-third of the surface area of the maximum amount of water which could be contained by the impoundment. The normal operating level shall be the average level of the pond during the preceding calendar month.

§ 421.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

- (a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available: Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process wastewater pollutants into navigable waters.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 10-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the areas in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10-year, 24-hour rainfall event, when such event occurs.

- (c) During any calendar month there may be discharged from a process wastewater impoundment either a volume of process wastewater equal to the difference between the precipitation for the month that falls within the impoundment and either the evaporation from the pond water surface area for that month, or a volume of process wastewater equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation from the pond water surface area as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center), whichever is greater.
- (d) Any process wastewater discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements:

	Effluent characteristic	
Effluent limitations	Maximum for any 1 day	Average of daily values for 30 con- secutive days shall not ex- ceed
	Metric Units (mg/l) English Units (ppm)	
	9	(
TSS	50	25
Cu	0.5	0.25
Zn	10	5
Oil and grease	20	10
pH	(1)	(1)

¹ Within the range of 6.0 to 9.0.

[49 FR 8802, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subject to the provisions of paragraph (b) of this section, there shall be

no discharge of process wastewater pollutants into navigable waters.

(b) a process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

§ 421.64 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards: There shall be no discharge of process wastewater pollutants into navigable waters.

§ 421.65 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary copper process wastewater introduced into a POTW shall not exceed the following values:

- (a) There shall be no discharge of process wastewater pollutants into a publicly owned treatment works subject to the provisions of paragraph (b) of this section.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

§ 421.66 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7 any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary copper process wastewater introduced into a POTW shall not exceed the following values: There shall be no discharge of process wastewater pollutants into a publicly owned treatment works.

§ 421.67 [Reserved]

Subpart G—Primary Lead Subcategory

Source: 49 FR 8803, Mar. 8, 1984, unless otherwise noted.

§ 421.70 Applicability: Description of the primary lead subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of lead at primary lead smelters and refineries.

§ 421.71 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter produc- tion	
Lead Zinc Total suspended solids pH	594.000 525.000 14,760.000 (1)	270.000 219.600 7,020.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furance lead bullion produced	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart G—Blast Furnace Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of blast furance lead bullion produced	
Lead Zinc Total suspended solidspH	6,155.000 5,446.000 153,000.000 (1)	2,798.000 2,276.000 72,740.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart G—Dross Reverberatory Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss or matte granulated	
Lead Zinc Total suspended solidspH	9,499.000 8,405.000 236,000.000 (1)	4,318.000 3,512.000 112,300.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of dross rever- beratory furnace produc- tion	
Lead Zinc Total suspended solidspH	15,920.000 14,080.000 395,500.000 (1)	7,235.000 5,884.000 188,100.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of blast furance lead bullion produced	
Lead Zinc Total suspended solids pH	702.900 622.000 17,470.000 (1)	319.500 259.900 8,307.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart G—Hard Lead Refining Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of hard lea produced	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart G—Hard Lead Refining Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of hard lead produced	
Lead Zinc Total suspended solids	32,730.000 28,960.000 813,300.000	14,880.000 12,100.000 386,800.000

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BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart G-Facility Washdown.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) of produced	ids per billion lead bullion
LeadZinc	.000 .000	.000
Total suspended solidspH	.000	.000

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart G-Employee Handwash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	5.445 4.818	2.475 2.013
Total suspended solids	135.300	64.350
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart G-Respirator Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead	8.745	3.975
Zinc	7.738	3.233
Total suspended solids	217.300	103.400
pH	(1)	(1)

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(1) Subpart G—Laundering of Uniforms.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of lead bullior produced	
Lead Zinc Total suspended solids	25.580 22.630 635.500	11.630 9.455 302.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49~\mathrm{FR}~8803,~\mathrm{Mar.}~8,~1984;~49~\mathrm{FR}~26739,~\mathrm{June}~29,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~49~\mathrm{FR}~29795,~\mathrm{July}~24,~1984]$

§ 421.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter production	
LeadZinc	100.800 367.200	46.800 151.200

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

(c) Subpart G—Blast Furnace Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

(d) Subpart G—Dross Reverberatory Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss, or matte granulated	
LeadZinc	1,612.000 5,872.000	748.400 2,418.000

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of dross rever- beratory furnace produc- tion	
Lead Zinc	.000 .000	.000

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	nds per billion of blast lead bullion
LeadZinc	.000 .000	.000

(g) Subpart G—Hard Lead Refining Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
LeadZinc	.000 .000	.000 .000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
LeadZinc	.000 .000	.000 .000

(i) Subpart G-Facility Washdown.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	.000 .000	.000 .000

(j) Subpart G-Employee Handwash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of lead bullic produced	
LeadZinc	.924 3.366	.429 1.386

(k) Subpart G-Respirator Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of lead bullic produced	
Lead	1.484	.689
Zinc	5.406	2.226

(1) Subpart G—Laundering of Uniforms.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produce	
LeadZinc	4.340 15.810	2.015 6.510

§421.74 Standards of performance for new sources.

Any new source subject to this subpart must achieve the following performance standards:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter produc- tion	
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
Lead Zinc Total suspended solidspH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(c) Subpart G—Blast Furnace Slag Granulation.

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	nds per billion of blast lead bullion
Lead Zinc Total suspended solids pH	.000 .000 .000	.000 .000 .000

¹Within the range of 7.5 to 10.0 at all times.

(d) Subpart G—Dross Reverberatory Slag Granulation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss or matte granulated	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (1)

¹Within the range of 7.5 to 10.0 at all times.

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of dross rever beratory furnace produc tion	
Lead Zinc Total suspended solidspH	.000 .000 .000 (1)	.000 .000 .000 (1)

¹Within the range of 7.5 to 10.0 at all times.

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(g) Subpart G—Hard Lead Refining Slag Granulation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of hard lea produced	
Lead Zinc Total suspended solidspH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
Lead Zinc Total suspended solids	.000 .000	.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(i) Subpart G—Facility Washdown.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion lead bullion
Lead Zinc Total suspended solidspH	.000 .000 .000 (1)	.000 .000 .000 (¹)

Within the range of 7.5 to 10.0 at all times.

(j) Subpart G—Employee Handwash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	.924 3.366 49.500 (¹)	.429 1.386 39.600 (¹)

Within the range of 7.5 to 10.0 at all times.

(k) Subpart G—Respirator Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of lead bullio produced	
Lead Zinc Total suspended solids pH	1.484 5.406 79.500	.689 2.226 63.600 (¹)

Within the range of 7.5 to 10.0 at all times.

(1) Subpart G—Laundering of Uniforms.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of lead bullic produced	
Lead Zinc Total suspended solids pH	4.340 15.810 232.500 (¹)	2.015 6.510 186.000 (¹)

Within the range of 7.5 to 10.0 at all times.

 $[49~\mathrm{FR}~8803,\,\mathrm{Mar}.~8,\,1984,\,\mathrm{as}$ amended at $49~\mathrm{FR}~29795,\,\mathrm{July}~24,\,1984]$

§ 421.75 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works mut comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter production	
LeadZinc	100.800 367.200	46.800 151.200

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

PSES

Pollutant or polluntant property	Maximum for any 1 day for monthly average mg/kkg (pound per billior pounds) of blas furnance lead bullior produced	
LeadZinc	.000 .000	.000 .000

(c) Subpart G—Blast Furnace Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pound per billion pounds) of blast furance lead bullion produced	
LeadZinc	.000 .000	.000

(d) Subpart G—Dross Reverberatory Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of slag, speiss or matte granulated	
LeadZinc	1,612.000 5,872.000	748.400 2,418.000

(e) Subpart G—Dross Reverberatory Furnance Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of dross rever- beratory furnace produc- tion	
LeadZinc	.000 .000	.000 .000

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(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
Lead	.000 .000	.000

(g) Subpart G—Hard Lead Refining Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion f hard lead
LeadZinc	.000 .000	.000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per bil pounds) of hard le produced	
LeadZinc	.000 .000	.000

(i) Subpart G-Facility Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced.	
LeadZinc	.000 .000	.000

(j) Subpart G—Employee Handwash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead	.924	.429
Zinc	3.366	1.386

(k) Subpart G—Respirator Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	1.484 5.406	.689 2.226

(1) Subpart G—Laundering of Uniforms.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	4.340 15.810	2.015 6.510

§ 421.76 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary lead process wastewaters introduced into a POTW shall not exceed the following values.

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter production	
Lead	.000 .000	.000

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

(c) Subpart G—Blast Furnace Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

(d) Subpart G—Dross Reverberatory Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss, or matte granulated	
LeadZinc	.000 .000	.000

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

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PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of dross rever- beratory furnace produc- tion	
LeadZinc	.000 .000	.000

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

(g) Subpart G—Hard Lead Refining Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
LeadZinc	.000 .000	.000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
LeadZinc	.000	.000

 ${\rm (i)}\ Subpart\ G\!\!-\!\!Facility\ Washdown.$

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) of produced	nds per billion lead bullion
LeadZinc	.000 .000	.000

(j) Subpart G—Employee Handwash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	.924 3.366	.429 1.386

(k) Subpart G—Respirator Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	1.484 5.406	.689 2.226

(1) Subpart G—Laundering of Uniforms.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of lead bullior produced	
LeadZinc	4.340 15.810	2.015 6.510

§421.77 [Reserved]

Subpart H—Primary Zinc Subcategory

Source: 49 FR 8808, Mar. 8, 1984, unless otherwise noted.

§ 421.80 Applicability: Description of the primary zinc subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of primary zinc by either electrolytic or pyrolytic means.

§ 421.81 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) The term *product* shall mean zinc metal.

§ 421.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

EFFLUENT LIMITATIONS

Maximum for any 1 day	Average of Daily values for 30 con- secutive days shall not exceed
(1) Metric Units (kg/kkg of product) (1) English Units (pounds per 1,000 pounds of product)	
0.42 0.0016 0.008 0.08 0.08 (1)	0.21 0.0008 0.004 0.04 0.04 (¹)
	(1) Metric Ur proc (1) English L per 1,000 product) 0.42 0.0016 0.008 0.08 0.08

Within the range of 6.0 to 9.0.

 $[49~\mathrm{FR}~8808,~\mathrm{Mar.}~8,~1984;~49~\mathrm{FR}~26739,~\mathrm{June}~29,~1984]$

§ 421.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
Cadmium	.334 2.135 .467 1.702	.134 1.018 .217 .701

(b) Subpart H—Preleach of Zinc Concentrates.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate leached	
Cadmium	.180 1.153 .252 .919	.072 .550 .117 .378

(c) Subpart H—Leaching Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f zinc proc- igh leaching
Cadmium Copper Lead Zinc	.000 .000 .000	.000 .000 .000

(d) Subpart H—Electrolyte Bleed Wastewater.

BAT EFFLUENT LIMITATIONS

_	Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
-			ds per million cathode zinc
C	Cadmium	.086	.035

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Copper	.553	.264
Lead	.121	.056
Zinc	.441	.182

(e) Subpart H—Cathode and Anode Wash Wastewater.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
Cadmium	.150	.060
Copper	.961	.458
Lead	.210	.098
Zinc	.766	.315

(f) Subpart H—Casting Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.051	.021
Copper	.329	.157
Lead	.072	.033
Zinc	.262	.108

 $\left(g\right)$ Subpart H—Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.036	.014
Copper	.232	.110
Lead	.051	.024
Zinc	.185	.076

(h) Subpart H—Cadmium Plant Wastewater.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cadmium pro-
Cadmium	1.234	.494
Copper	7.899	3.765
Lead	1.728	.802
Zinc	6.295	2.592

§421.84 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

NSPS

Maximum for any 1 day	Maximum for monthly average
	ds per million zinc reduced
.334	.134
2.135	1.018
.467	.217
1.702	.701
25.020	20.020
(1)	(1)
	mg/kg (pounds) of 2 .334 2.135 .467 1.702 25.020

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart H—Preleach of Zinc Concentrates.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Cadmium	.180	.072
Caumum		.072
Copper	1.153	.550
Lead	.252	.117
Zinc	.919	.378
Total suspended solids	13.520	10.810
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart H—Leaching Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million f zinc proc- igh leaching
Cadmium	.000	.000
Copper Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart H—Electrolyte Bleed Wastewater.

NSPS

	_	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
Cadmium Copper Lead Zinc Total suspended solids pH	.086 .553 .121 .441 6.480	.035 .264 .056 .182 5.184

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(e) Subpart H—Cathode and Anode Wash Wastewater.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zind produced	
Cadmium Copper Lead Zinc Total suspended solids pH	.150 .961 .210 .766 11.270 (¹)	.060 .458 .098 .315 9.012 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart H—Casting Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.051 .329 .072	.021 .157 .033

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc Total suspended solidspH	.262 3.855 (¹)	.108 3.084 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart H—Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zinc cast	
Cadmium Copper Lead Zinc Total suspended solids pH	.036 .232 .051 .185 2.715 (¹)	.014 .110 .024 .076 2.172 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart H—Cadmium Plant Wastewater.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cadmium pro duced	
Cadmium Copper Lead Zinc Total suspended solids pH	1.234 7.899 1.728 6.295 92.570 (¹)	.494 3.765 .802 2.592 74.050

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8808, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.85 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary zinc process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

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PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
CadmiumZinc	.334 1.702	.134 .701

(b) Subpart H—Preleach of Zinc Concentrates.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate leached	
CadmiumZinc	.180 .919	.072 .378

(c) Subpart H—Leaching Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc proc- essed through leaching	
CadmiumZinc	.000 .000	.000 .000

(d) Subpart H—Electrolyte Bleed Wastewater.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zind produced	
CadmiumZinc	.086 .441	.035 .182

(e) Subpart H—Cathode and Anode Wash Wastewater.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
Cadmium	.150	.060

PSES—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	.766	.315

(f) Subpart H—Casting Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	.051 .262	.021 .108

(g) Subpart H—Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	.036 .185	.014 .076

 $\begin{array}{ccc} \hbox{(h)} & \hbox{Subpart} & \hbox{H--Cadmium} & \hbox{Plant} \\ \hbox{Wastewater.} \end{array}$

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cadmium pro duced	
CadmiumZinc	1.234 6.295	.494 2.592

§ 421.86 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary zinc process wastewaters introduced into a POTW shall not exceed the following values:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
CadmiumZinc	.334 1.702	.134 .701

(b) Subpart H—Preleach of Zinc Concentrates.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate leached	
CadmiumZinc	.180 .919	.072 .378

(c) Subpart H—Leaching Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc proc- essed through leaching	
CadmiumZinc	.000 .000	.000 .000

(d) Subpart H—Electrolyte Bleed Wastewater.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zind produced	
CadmiumZinc	.086 .441	.035 .182

(e) Subpart H—Cathode and Anode Wash Wastewater.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zind produced	
Cadmium	.150	.060

PSNS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	.766	.315

(f) Subpart H—Casting Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zinc cast	
CadmiumZinc	.051 .262	.021 .108

(g) Subpart H—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	0.036 0.185	0.014 0.076

(h) Subpart H—Cadmium Plant Wastewater.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cadmium pro-
CadmiumZinc	1.234 6.295	0.494 2.592

§ 421.87 [Reserved]

Subpart I—Metallurgical Acid Plants Subcategory

§ 421.90 Applicability: Description of the metallurgical acid plants subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from or associated with the manufacture of by-product sulfuric

acid at primary copper smelters, primary zinc facilities, primary lead facilities, and primary molybdenum facilities, including any associated air pollution control or gas-conditioning systems for sulfur dioxide off-gases from pyrometallurgical operations.

[49 FR 8811, Mar. 8, 1984, as amended at 50 FR 38342, Sept. 20, 1985]

§ 421.91 Specialized definitions.

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 apply to this subpart.
- (b) The term product means 100 percent equivalent sulfuric acid, H₂ SO₄ capacity.

[50 FR 38342, Sept. 20, 1985]

§ 421.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

SUBPART I-METALLURGICAL ACID PLANT

	BPT effluent limitations	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds of 100% sulfurio acid capacity	
Cadmium	0.180	0.090
Copper	5.000	2.000
Lead	1.800	0.790
Zinc	3.600	0.900
Fluoride 1	212.800	121.000
Molybdenum 1	40.180	20.790
Total suspended solids	304.000	152.000
pH	2	2

¹ For Molybdenum Acid Plants Only. ²Within the range of 6.0 to 9.0 at all times.

§ 421.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

SUBPART I—METALLURGICAL ACID PLANT—BAT **EFFLUENT LIMITATIONS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of 100 pct sul- furic acid capacity	
Arsenic Cadmium Copper Lead Zinc Fluoride ¹ Molybdenum ¹	3.550 0.511 3.269 0.715 2.605 89.390 [Reserved]	1.584 0.204 1.558 0.332 1.073 50.820 [Reserved].

¹ For Molybdenum acid plants only.

[50 FR 38343, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990]

§421.94 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

SUBPART I-METALLURGICAL ACID PLANT-**NSPS**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of furic acid ca	100 pct sul-
Arsenic	3.550	1.584
Cadmium	0.511	0.204
	3.269	1.558
Copper		
Lead	0.715	0.332
Zinc	2.605	1.073
Fluoride 1	89.390	50.820
Molybdenum 1	[Reserved]	[Reserved].
Total suspended solids	38,310	30,650
pH	(2)	(2)

[50 FR 38343, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990]

^{[50} FR 38342, Sept. 20, 1985; 50 FR 52776, Dec. 26, 1985]

¹ For Molybdenum acid plants only. ² Within the range of 7.5 to 10.0 at all times.

§ 421.95 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in metallurgical acid plant blowdown introduced into a POTW shall not exceed the following values:

SUBPART I—METALLURGICAL ACID PLANT—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per/millior pounds) of 100 pct sul- furic acid capacity	
CadmiumZinc	0.511 2.605	0.204 1.073

[50 FR 38343, Sept. 20, 1985]

§ 421.96 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in metallurgical acid plant blowdown introduced into a POTW shall not exceed the following values:

SUBPART I—METALLURGICAL ACID PLANT—PSNS

Pollutant or pollutant property	Maximum for any 1 for montl day average	
	mg/kg (pounds per million pounds) of 100 pct sul- furic acid capacity	
Arsenic	3,550	1.584
Cadmium	0.511	0.204
Copper	3.269	1.558
Lead	0.715	0.332
Zinc	2.605	1.073
Fluoride 1	89.390	50.820
Molybdenum 1	[Reserved]	[Reserved].

¹ For Molybdenum acid plants only.

 $[50~{\rm FR}~38343,~{\rm Sept.}~20,~1985,~{\rm as~amended~at}~55~{\rm FR}~31697,~{\rm Aug.}~3,~1990]$

§ 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

§ 421.100 Applicability: Description of the primary tungsten subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tungsten at primary tungsten facilities.

[49 FR 8812, Mar. 8, 1984]

§421.101 Specialized definitions.

For the purpose of this subpart the general information, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8812, Mar. 8, 1984]

§ 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart J—Tungstic Acid Rinse.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	17.230	8.205
Zinc	59.900	25.030
Ammonia (as N)	5,469.000	2,404.00
Total suspended solids	1,682.000	800.000
pH	(1)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart J—Acid Leach Wet Air Pollution Control.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	15.040	7.162
Zinc	52.280	21.840
Ammonia (as N)	4,773.000	2,098.000
Total suspended solids	1,468.000	698.300
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart J—Alkali Leach Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of sodium tungstate (as W) pro- duced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart J—Alkali Leach Wash Condensate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of sodium tungstate (as W) pro duced	
Lead	8.057	3.837
Zinc	28.011	11.700
Ammonia (as N)	2,557.000	1,124.000
Total suspended solids	786.200	374.100
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart J-Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur tungstate (as W) pro duced	
Lead	37.160	17.700
Zinc	129.200	53.970
Ammonia (as N)	11,790.000	5,185.000
Total Suspended solids	3,627.000	1,726.000
pH	(1)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart J-Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammonium tungstate (as W) pro duced	
Lead	37.160	17.700
Zinc	129.200	53.970
Ammonia (as N) (2)	11,790.000	5,185.000
Total suspended solids	3,627.000	1,726.000
pH	(1)	(1)

(g) Subpart J—Calcium Tungstate Precipitate Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of calciun tungstate (as W) pro duced	
Lead	31.000	14.760
Zinc	107.800	45.020
Ammonia (as N)	9,838.000	4,325.000
Total suspended solids	3,026.000	1,439.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart J-Crystallization and Drying of Ammonium Paratungstate.

¹ Within the range of 7.0 to 10.0 at all times.

² The effluent limitation guideline for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of ammonium paratungstate (as W produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic oxide (as W) produced	
Lead	11.600 40.320 3,681.000 1,132.000 (¹)	5.523 16.850 1,618.000 538.500 (1)

¹ Within the range of 7.0 to 10.0 at all times.

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic oxid (as W) produced	
Lead	0.026 0.092 8.398 2.583 (¹)	0.013 0.038 3.692 1.229 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
Lead	12.940	6.161

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	44.970	18.790
Ammonia (as N) Total suspended solids	4,106.000 1,263.000	1,805.000 600.700
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(1) Subpart J—Reduction to Tungsten Water of Formation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
Lead	.205 .714 65.190 20.050 (¹)	.098 .298 28.660 9.536 (1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.0 to 10.0 at all times.

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
LeadZinc	1.008 3.504	0.48 1.464
Ammonia (as N)	319.900	140.700
Total suspended solids	98.400	46.800
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
Lead	.000 .000 .000 .000	.000 .000 .000 .000 (1)

¹ Within the range of 7.0 to 10.0 at all times.

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1706, Jan. 21, 1988]

§ 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart J—Tungstic Acid Rinse.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead Zinc Ammonia (as N)	11.490 41.850 5,469.000	5.333 17.230 2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J—Alkali Leach Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of sodiun tungstate (as W) pro duced	
Lead Zinc	0.000 0.000 0.000	0.000 0.000 0.000

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(d) Subpart J—Alkali Leach Wash Condensate.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
Lead	5.372	2.494
Zinc	19.570	8.057
Ammonia (as N)	2,557.000	1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f ammonium (as W) pro-
Lead Zinc	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of ammonium tungstate (as W) pro- duced	
24.780	11.500
90.240	37.160
11,790.000	5,185.000
	for any 1 day mg/kg (pound pounds) o tungstate duced 24.780 90.240

¹ The effluent limitation for this pollutant does not apply if a) the motor liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/1; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of calcium tungstate (as W) pro- duced	
Lead Zinc	20.670 75.280 9,838.000	9.594 31.000 4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of ammonium paratungstate (as W) produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of tungstic oxide (as W) produced	
Lead	0.773 2.817 368.200	0.359 1.160 161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of tungstic oxide (as W) produced	
Lead	0.018 0.064 8.398	0.008 0.026 3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/millior pounds) of tungster metal produced	
Lead	0.862 3.142	0.400 1.294
Ammonia (as N)	410.600	180.500

(1) Subpart J—Reduction to Tungsten Water of Formation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of tungster metal produced	
Lead	0.137	0.064
Zinc	0.499	0.205
Ammonia (as N)	65.190	28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead Zinc Ammonia (as N)	0.672 2.448 319.900	0.312 1.008 140.700

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

 $[49~{\rm FR}~8812,~{\rm Mar.}~8,~1984,~{\rm as~amended~at}~53~{\rm FR}~1708,~{\rm Jan.}~21,~1988]$

§421.104 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart J—Tungstic Acid Rinse.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490	5.333
Zinc	41.850	17.230
Ammonia (as N)	5,469.000	2,404.000
Total suspended solids	615.400	492.300
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart J-Acid Leach Wet Air Pollution

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead Zinc	1.003 3.653 477.400 53.720 (¹)	0.466 1.504 209.900 42.970 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart J—Alkali Leach Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milling pounds) of sodius tungstate (as W) produced	
Lead Zinc Ammonia (as N) Total suspended solids pH	0.000 0.000 0.000 0.000 (¹)	0.000 0.000 0.000 0.000 (1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart J—Alkali Leach Wash Condensate.

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of sodium (as W) pro-
Lead	5.372	2.494
Zinc	19.570	8.057
Ammonia (as N)	2,557.000	1,124.000
Total suspended solids	287.800	229.600
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart J-Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammonium tungstate (as W) pro duced	
Lead	24.780 90.240 11,790.000 1,327.000 (¹)	11.500 37.160 5,185.000 1,062.000 (1)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart J-Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur tungstate (as W) pro duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) (2)	11,790.000	5,185.000
Total suspended solids	1,327.000	1,062.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

¹ Within the range of 7.0 to 10.0 at all times.
² The new source standard for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfate at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of calciun tungstate (as W) pro duced	
Lead	20.670	9.594
Zinc	75.280	31.000
Ammonia (as N)	9,838.000	4,325.000
Total suspended solids	1,107.000	885.600
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

 $\begin{array}{ccc} \hbox{(h)} & Subpart & J--Crystallization & and} \\ Drying & of Ammonium Paratung state. \end{array}$

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of ammonium paratungstate (as Wi produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of tungstic oxide (as W) produced	
LeadZinc	0.773 2.817	0.359 1.160
Ammonia (as N)	368.200	161.900
Total suspended solids	41.430	33.150
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic oxid (as W) produced	
Lead	0.018 0.064 8.398 0.945 (¹)	0.008 0.026 3.692 0.756 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead	.862 3.142 410.600 46.200 (1)	.400 1.294 180.500 36.960 (¹)

¹Within the range of 7.0 to 10.0 at all times.

(1) Subpart J—Reduction to Tungsten Water of Formation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead	.137 .499 65.190 7.335 (1)	.064 .205 28.660 5.868 (1)

¹Within the range of 7.0 to 10.0 at all times.

(m) Subpart J—Tungsten Power Acid Leach and Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten uced
Lead Zinc Ammonia (as N) Total suspended solids	.672 2.448 319.900 36.000	.312 1.008 140.700 28.800

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.00	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1709, Jan. 21, 1988]

§ 421.105 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary tungsten process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart J—Tungstic Acid Rinse.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead Zinc	11.490 41.850 5,469.000	5.333 17.230 2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic aci (as W) produced	
Lead Zinc Ammonia (as N)	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J—Alkali Leach Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstate (as W) produced	
Lead Zinc	0.000 0.000 0.000	0.000 0.000 0.000

(d) Subpart J—Alkali Leach Wash Condensate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of sodiu tungstate (as W) pro duced	
Lead	5.372 19.570	2.494 8.057
Ammonia (as N)	2,557.000	1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstate (as W) produced	
Lead Zinc Ammonia (as N)	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammonium tungstate (as W) pro- duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) 1	11,790.000	5,185.000

¹The pretreatment standard for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of calcium tungstate (as W) pro- duced	
Lead	20.670	9.594
Zinc	75.280	31.000
Ammonia (as N)	9,838.000	4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of ammonium paratungstate (as W) produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic oxide (as W) produced	
Lead Zinc Ammonia (as N)	0.773 2.817 368.200	0.359 1.160 161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic oxide (as W) produced	
Lead	0.018 0.064	0.008 0.026
Ammonia (as N)	8.398	3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead	.862	.400
Zinc	3.142	1.294
Ammonia (as N)	410.600	180.500

(1) Subpart J—Reduction to Tungsten Water of Formation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
LeadZincAmmonia (as N)	.137 .499 65.190	.064 .205 28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

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PSES

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten metal produced	
Lead	.672 2.448 319.900	.312 1.008 140.700

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds of tungster metal produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

 $[49~{\rm FR}~8812,~{\rm Mar.}~8,~1984,~{\rm as~amended~at}~53~{\rm FR}~1711,~{\rm Jan.}~21,~1988]$

§ 421.106 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary tungsten process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart J—Tungstic Acid Rinse.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead Zinc Ammonia (as N)	11.490 41.850 5,469.000	5.333 17.230 2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of tungstic acid (as W produced	
Lead Zinc	1.003 3.653 477.400	0.466 1.504 209.900

PSNS

(c) Subpart J—Alkali Leach Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of sodium tungstate (a: W) produced	
Lead	0.000 0.000 0.000	0.000 0.000 0.000

(d) Subpart J—Alkali Leach Wash Condensate.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of sodium tungstate (a: W) produced	
Lead Zinc Ammonia (as N)	5.372 19.570 2,557.000	2.494 8.057 1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of ammonium tungstate (as W) produced	
Lead Zinc	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium tungstate (as W) produced	
Lead Zinc Ammonia (as N)(1)	24.780 90.240 11,790.000	11.500 37.160 5,185.000

¹The pretreatment standard for this pollutant does not apply if a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of calcium tungstate (as W) produced	
Lead	20.670 75.280 9,838.000	9.594 31.000 4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium paratungstate (as W produced	
LeadZinc	0.000 0.000 0.000	0.000 0.000 0.000

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per millior of tungstic oxide (as W produced	
Lead	0.773 2.817	0.359 1.160

PSNS—Continued

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
Ammonia (as N)	368.200	161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of tungstic oxide (as W produced	
LeadZinc	0.018 0.064 8.398	0.008 0.026 3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungsten metal produced	
Lead	.862 3.142 410.600	.400 1.294 180.500

(1) Subpart J—Reduction to Tungsten Water of Formation.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (lb/ million lbs) of tungsten metal produced	
Lead	.137 .499 65.190	.064 .205 28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts per million) of tungsten metal produced	
Lead	.672 2.448 319.900	.312 1.008 140.700

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(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts per million) of tungsten metal produced	
LeadZincAmmonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1712, Jan. 21, 1988]

§421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

§ 421.110 Applicability: Description of the primary columbium-tantalum subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of columbium or tantalum by primary columbium-tantalum facilities.

[49 FR 8817, Mar. 8, 1984]

$\S 421.111$ Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8817, Mar. 8, 1984]

§ 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of concentra digested	
LeadZinc	2.612 9.080	1.244 3.794
Ammonia (as N)	829.000	364.500
Fluoride	217.700	124.400
Total suspended solids	255.000	121.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart K—Solvent Extraction Raffinate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	3.888	1.851
Zinc	13.520	5.647
Ammonia (as N)	1,233.000	542.500
Fluoride	324.000	185.100
Total Suspended Solids	379.500	189.500
pH	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead	1.032 3.586 327.400 85.960 100.700	.491 1.498 143.900 49.120 47.890
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart K—Precipitation and Filtration.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	5.750	2.738
Zinc	19.990	8.350
Ammonia (as N)	1,825.000	802.200
Fluoride	479.100	273.800
Total suspended solids	561.300	267.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of concentrat digested	
LeadZincAmmonia (as N)Fluoride	26.680 92.730 8,466.000 2,223.000	12.700 38.740 3,722.000 1,270.000
Total suspended solidspH	2,604.000 (¹)	1,239.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $\ensuremath{(f)}$ Subpart K—Tantalum Salt Drying.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of tantalum sa dried	
Lead	25.430	12.110
Zinc	88.390	36.930
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000
Total suspended solids	2,482.000	1,181.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of columbium tantalum oxide dried	
Lead	16.140	7.685
Zinc	56.100	23.440
Ammonia (as N)	5,122.000	2,252.000
Fluoride	1,345.000	768.500
Total suspended solids	1,576.000	749.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart K—Reduction of Tantalum Salt to Metal.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property			
Description Description	Pollutant or pollutant property	for any 1	Maximum for monthly average
Zinc 242.500 101.30 Ammonia (as N) 22,140.000 9,732.00 Fluoride 5,813.000 3,322.00 Total suspended solids 6,809.000 3,239.00		pounds) of tantalum s	
	Zinc	242.500 22,140.000 5,813.000	33.220 101.300 9,732.000 3,322.000 3,239.000

¹ Within the range of 7.5 to 10.0 at all times.

 $\ensuremath{(i)}$ Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of reduced	ds per million tantalum salt
Lead	.858 2.983 272.400 71.510 83.770 (¹)	.409 1.246 119.700 40.860 39.840

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

(j) Subpart K—Tantalum Powder Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum power washed	
Lead Zinc Ammonia (as N)	8.582 29.830 2,724.000	4.087 12.470 1.198.000
Fluoride	715.200 837.800	408.700 398.500
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart K—Consolidation and Casting Contact Cooling.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium or tantalum cast or consoli- dated	
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Fluoride	.000	.000
Total suspended solids	.000	.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49\ FR\ 8817,\ Mar.\ 8,\ 1984,\ as\ amended\ at\ 49\ FR\ 29795,\ July\ 24,\ 1984;\ 50\ FR\ 12253,\ Mar.\ 28,\ 1985]$

§ 421.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate digested	
Lead	.174	.081
Zinc	.635	.261
Ammonia (as N)	82.910	36.450
Fluoride	21.770	12.440

(b) Subpart K—Solvent Extraction Raffinate.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/Kg (pounds per million pounds) of concentrate di gested	
Lead	2.592 9.442 1,233.000 324.000	1.203 3.888 542.5000 185.100

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead Zinc Ammonia (as N) Fluoride	.069 .251 32.790 8.610	.032 .103 14.420 4.920

(d) Subpart K—Precipitation and Filtration.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
LeadZincAmmonia (as N)Fluoride	3.833 13.960 1,825.000 479.100	1.780 5.750 802.200 273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	1.778	.826
Zinc	6.478	2.668
Ammonia (as N)	846.600	372.200
Fluoride	222.300	127.000

(f) Subpart K—Tantalum Salt Drying.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt dried	
Lead	16.950	7.871
Zinc	61.750	25.430
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium- tantalum oxide	
Lead	1.076	.500
Zinc	3.919	1.614
Ammonia (as N)	512.200	225.200
Fluoride	134.500	76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sal reduced	
Lead	46.500	21.590
Zinc	169.400	69.750
Ammonia (as N)	22,140.000	9,732.000
Fluoride	5,813.000	3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum sal reduced	
Lead Zinc Fluoride	.572 2.084 71.510	.266 .858 40.860

(j) Subpart K—Tantalum Powder Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder washed	
Lead	5.721	2.656
Zinc	20.840	8.582
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700

(k) Subpart K—Consolidation and Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium of tantalum cast or consolidated	
Lead	.000 .000 .000	.000. 000. 000.

 $[49~\mathrm{FR}~8817,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~50~\mathrm{FR}~12253,~\mathrm{Mar.}~28,~1985]$

§ 421.114 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	.174	.081
Zinc	.635	.261
Ammonia (as N)	82.910	36.450
Fluoride	21.770	12.440
Total suspended solids	9.330	7.464
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart K—Solvent Extraction Raffinate.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million concentrate di-
Lead	2.592	1.203
Zinc	9.442	3.888
Ammonia (as N)	1,233.000	542.5000
Fluoride	324.000	185.100
Total Suspended Solids	138.900	111.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	.069	.032
Zinc	.251	.103
Ammonia (as N)	32.790	14.420
Fluoride	8.610	4.920
Total suspended solids	3.690	2.952
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart K—Precipitation and Filtration.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
LeadZinc	3.833 13.960	1.780 5.750

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NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	1,825.000 479.100 205.400 (1)	802.200 273.800 164.300 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	1.778 6.478 846.600 222.300 95.270	.826 2.668 372.200 127.000 76.210

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart K—Tantalum Salt Drying.

NSPS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day	average
	mg/kg (pounds per millio pounds) of tantalum sa dried	
Lead	16.950	7.871
Zinc	61.750	25.430
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000
Total suspended solids	908.200	726.500
pH	(¹)	(1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f columbium- tide dried
Lead	1.076 3.919 512.200 134.500 57.630	.500 1.614 225.200 76.840 46.110
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart K—Reduction of Tantalum Salt to Metal.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum sal reduced	
Lead	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000
Total suspended solidspH	2,491.000 (¹)	1,993.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sali reduced	
LeadZinc	.572 2.084	.266 .858
Ammonia (as N)	272.400 71.510	119.700 40.860
Total suspended solids	30.650	24.520
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(j) Subpart K—Tantalum Powder Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder washed	
LeadZinc	5.721 20.840	2.656 8.582
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700
Total suspended solids	306.500	245.200
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart K—Consolidation and Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of columbium o tantalum cast or consoli dated	
Lead	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8817, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984; 50 FR 12253, Mar. 28, 1985]

§ 421.115 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary columbium-talum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million concentrate
Lead	.174 .635 82.910 21.770	.081 .261 36.450 12.440

(b) Subpart K—Solvent Extraction Raffinate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate di- gested	
Lead Zinc Ammonia (as N)	2.592 9.442 1,233.000	1.203 3.888 542.5000

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PSES—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	324.000	185.100

 $\begin{array}{cccc} \text{(c)} & \text{Subpart} & \text{K--Solvent} & \text{Extraction} \\ \text{Wet Air Pollution Control.} \end{array}$

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead	.069 .251 32.790	.032 .103 14.420
Fluoride	8.610	4.920

(d) Subpart K—Precipitation and Filtration.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	3.833 13.960	1.780 5.750
Ammonia (as N)	1,825.000	802.200
Fluoride	479.100	273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

PSES

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of concentrate digested	
1.778	.826
6.478	2.668
846.600	372.200
222.300	127.000
	for any 1 day mg/kg (pound pounds) of digested 1.778 6.478 846.600

(f) Subpart K—Tantalum Salt Drying.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum sai dried	
Lead Zinc	16.950 61.750 8,070.000 2,119.000	7.871 25.430 3,548.000 1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of columbium tantalum oxide dried	
Lead Zinc	1.076 3.919 512.200 134.500	.500 1.614 225.200 76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa reduced	
Lead	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt reduced	
Lead Zinc Ammonia (as N) Fluoride	.572 2.084 272.400 71.510	.266 .858 119.700 40.860

(j) Subpart K—Tantalum Powder Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder washed	
Lead Zinc	5.721 20.840 2,724.000 715.200	2.656 8.582 1,198.000 408.700

 $\begin{array}{ccc} (k) & Subpart & K-Consolidation & and \\ Casting & Contact & Cooling. \end{array}$

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of columbium of tantalum cast or consoli- dated	
LeadZinc	.000	.000
Ammonia (as N)	.000	.000
Fluoride	.000	.000

 $[49~\mathrm{FR}~8817,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~50~\mathrm{FR}~12253,~\mathrm{Mar.}~28,~1985]$

§ 421.116 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary columbium-tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
LeadZincAmmonia (as N)Fluoride	.174 .635 82.910 21.770	.081 .261 36.450 12.440

(b) Subpart K—Solvent Extraction Raffinate.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of concentrate gested	
LeadZincAmmonia (as N)	2.592 9.442 1,233.000 324.000	1.203 3.888 542.5000 185.100

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of concentrat digested	
Lead Zinc Ammonia (as N) Fluoride	.069 .251 32.790 8.610	.032 .103 14.420 4.920

(d) Subpart K—Precipitation and Filtration.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead	3.833 13.960 1,825.000 479.100	1.780 5.750 802.200 273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead Zinc Ammonia (as N) Fluoride	1.778 6.478 846.600 222.300	.826 2.668 372.200 127.000

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(f) Subpart K—Tantalum Salt Drying.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sal dried	
LeadZincAmmonia (as N)	16.950 61.750 8,070.000 2,119.000	7.871 25.430 3,548.000 1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day	average
	mg/kg (pounds per million pounds) of columbium tantalum oxide dried	
Lead	1.076	.500
Zinc	3.919	1.614
Ammonia (as N)	512.200	225.200
Fluoride	134.500	76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa reduced	
Lead	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tantalum salt
Lead	.572 2.084 272.400 71.510	.266 .858 119.700 40.860

(j) Subpart K—Tantalum Powder Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder washed	
Lead Zinc Ammonia (as N) Fluoride	5.721 20.840 2,724.000 715.200	2.656 8.582 1,198.000 408.700

(k) Subpart K—Consolidation and Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of columbium o tantalum cast or consol dated	
Lead Zinc	.000 .000 .000	.000. 000. 000.

 $[49~\mathrm{FR}~8817,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~50~\mathrm{FR}~12253,~\mathrm{Mar.}~28,~1985]$

§421.117 [Reserved]

Subpart L—Secondary Silver Subcategory

Source: 49 FR 8821, Mar. 8, 1984, unless otherwise noted.

§ 421.120 Applicability: Description of the secondary silver subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of silver from secondary silver facilities processing photographic and nonphotographic raw materials.

[49 FR 8821, Mar. 8, 1984; 49 FR 26739, June 29,

§421.121 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart L—Film Stripping.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper	95.670	50.350
Zinc	73.510	30.720
Ammonia (as N)	6,712.000	2,951.000
Total suspended solids	2,065.000	981.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fil tration of film stripping solutions	
Copper	1.843 1.416 129.300 39.770	.970 .592 56.840 18.920

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
CopperZincAmmonia (as N)	109.400 84.050 7,674.000	57.570 35.120 3,374.000

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	2,361.000 (¹)	1,123.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	50.540 38.836	26.600 16.226
Ammonia (as N)	3,545.000	1,559.000
Total suspended solids	1,090.600	518.700
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silvent from precipitation and for tration of photograph solutions	
CopperZinc	23.070 17.730	12.140 7.406
Ammonia (as N)	1.618.000	711.400
Total suspended solids	497.800	236.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart L—Electrolytic Refining.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper Zinc Ammonia (as N) Total suspended solids	1.444 1.110 101.300 31.160	.760 .464 44.540 14.820
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart L—Furnace Wet Air Pollution Control.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper Zinc Ammonia (as N) Total suspended solids PH	1.273 .978 89.310 27.470 (1)	.670 .409 39.260 13.070 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart L—Leaching.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper	.164	.086
Zinc	.126	.053
Ammonia (as N)	11.470	5.040
Total suspended solids	3.526	1.677
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro- duced from leaching or silver precipitated	
Copper	8.417 6.468 590.500 181.700 (¹)	4.430 2.703 259.600 86.390 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	5.833 4.482 409.300 125.900 (1)	3.070 1.873 179.900 59.870 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart L—Floor and Equipment Washdown.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper	.000 .000 .000 .000	.000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

 $[49~\mathrm{FR}~8821,\,\mathrm{Mar}.~8,\,1984,\,\mathrm{as}$ amended at $49~\mathrm{FR}~29795,\,\mathrm{July}~24,\,1984]$

§ 421.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart L—Film Stripping.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
CopperZincAmmonia (as N)	64.450 51.360 6,712.000	30.720 21.150 2,951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fi tration of film strippin solutions	
Copper	1.242 .990	.592 .408

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	129.300	56.840

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	73.690 58.720 7,674.000	35.120 24.180 3,374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from precipitation and filtration of photographic solutions	
CopperZinc	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper	.973 .775 101.300	.464 .319 44.540

(g) Subpart L—Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

(h) Subpart L—Leaching.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro duced from leaching o silver precipitated	
Copper Zinc Ammonia (as N)	5.671 4.519 590.500	2.703 1.861 259.600

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	3.930 3.132 409.300	1.873 1.290 179.900

(k) Subpart L—Floor and Equipment Washdown.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
CopperZinc	.000 .000 .000	.000 .000 .000

§ 421.124 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart L—Film Stripping.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper	64.450	30.720
Zinc	51.360	21.150
Ammonia (as N)	6,712.000	2,951.000
Total suspended solids	755.300	604.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- film stripping
Copper	1.242 .990 129.300 14.550 (¹)	.592 .408 56.840 11.640 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	73.690	35.120

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NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	58.720	24.180
Ammonia (as N)	7,674.000	3,374.000
Total suspended solids	863.600	690.900
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	34.048 27.132 3,545.000 399.000 (1)	16.226 11.172 1,559.000 319.200

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- photographic
CopperZinc	15.540 12.380	7.406 5.099
Ammonia (as N) Total suspended solids	1,618.000 182.100	711.400 145.700
pH	(1)	(1)

 $^{^{\}rm 1}\,\text{Within}$ the range of 7.5 to 10.0 at all times.

(f) Subpart L—Electrolytic Refining.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper	.973 .775 101.300 11.400 (¹)	.464 .319 44.540 9.120 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart L—Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper	.000 .000 .000 .000 (1)	.000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart L—Leaching.

NSPS

property Maximum for any 1 day	Maximum for monthly average	
	mg/troy ounce of silver produced from leaching	
	.036	
11.47		
	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro- duced from leaching or silver precipitated	
Copper	5.671 4.519 590.500 66.450 (1)	2.703 1.861 259.600 53.160 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	3.930 3.132 409.300	1.873 1.290 179.900
Total suspended solidspH	46.050 (¹)	36.840 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart L—Floor and Equipment Washdown.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8821, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.125 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary silver process wastewater introduced into a POTW must not exceed the following values.

(a) Subpart L—Film Stripping.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
CopperZincAmmonia (as N)	64.450 51.360 6,712.000	30.720 21.150 2,951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fi tration of film strippin solutions	
Copper Zinc Ammonia (as N)	1.242 .990 129.300	.592 .408 56.840

 $\hbox{(c) Subpart L--Precipitation and Filtration of Film Stripping Solutions.}$

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	73.690 58.720 7,674.000	35.120 24.180 3,374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from precipitation and fil- tration of photographic solutions	
Copper Zinc Ammonia (as N)	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper Zinc	.973 .775 101.300	.464 .319 44.540

(g) Subpart L—Furnace Wet Air Pollution Control.

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PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper Zinc	.000 .000 .000	.000 .000 .000

(h) Subpart L—Leaching.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro duced from leaching o silver precipitated	
Copper Zinc Ammonia (as N)	5.671 4.519 590.500	2.703 1.861 259.600

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	3.930	1.873
Zinc	3.132	1.290
Ammonia (as N)	409.300	179.900
Ammonia (as N)	409.300	179.9

(k) Subpart L—Floor and Equipment Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

§421.126 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary silver process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart L—Film Stripping.

PSNS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	mg/troy ounce of silver from film stripping	
CopperZinc	64.450 51.360	30.720 21.150
Ammonia (as N)	6,712.000	2,951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from precipitation and fil- tration of film stripping solutions	
Copper Zinc Ammonia (as N)	1.242 .990 129.300	.592 .408 56.840

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	73.690 58.720 7,674.000	35.120 24.180 3.374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fil tration of photographic solutions	
Copper Zinc Ammonia (as N)	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper Zinc Ammonia (as N)	.973 .775 101.300	.464 .319 44.540
7 IIIII (40 14)	131.000	17.57

(g) Subpart L—Furnace Wet Air Pollution Control.

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PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted or dried	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

(h) Subpart L-Leaching.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

PSNS

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of silver pro- duced from leaching or silver precipitated	
5.671 4.519	2.703 1.861 259.600
	day mg/troy ounce duced from silver precip 5.671

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	3.930	1.873
Zinc	3.132	1.290
Ammonia (as N)	409.300	179.900

(k) Subpart L—Floor and Equipment Washdown.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
CopperZinc	.000 .000 .000	.000 .000 .000

[49 FR 8821, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§421.127 [Reserved]

Subpart M—Secondary Lead Subcategory

Source: 49 FR 8826, Mar. 8, 1984, unless otherwise noted.

§ 421.130 Applicability: Description of the secondary lead subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of lead by secondary lead facilities.

§421.131 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart M—Battery Cracking

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead scrap produced	
Antimony	1.932 1.407	.862 .579

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	.283 .983 .000 27.600 (1)	.135 .411 .000 13.130 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	7.491 5.455 1.096 3.811 .000 107.000	3.341 2.245 .522 1.592 .000 50.900

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart M—Kettle Wet Air Pollution Control

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro duced from refining	
Antimony	.129 .094 .019 .066 .000 1.845	.058 .039 .009 .027 .000 .878

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart M—Lead Paste Desulfurization

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead proc- essed through desulfurization	
Antimony	.000 .000	.000

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	.000 .000 .000 .000 (1)	.000 .000 .000 .000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart M—Casting Contact Cooling

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Antimony	.634 .462 .093 .323 .000 9.061	.283 .190 .044 .135 .000 4.310
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart M—Truck Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	ny 1 for monthly	
	mg/kg (pounds per million pounds) of lead pro- duced from smelting		
Antimony	.060 .044 .009 .031 .000 .861	.027 .018 .004 .013 .000 .410	

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart M—Facility Washdown

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony Arsenic Lead Zinc Ammonia (as N) Total suspended solids pH	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart M—Battery Case Classification.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million f lead scrap
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart M—Employee Handwash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	for any 1 for monthly	
	mg/kg (pounds per million pounds) of lead pro- duced from smelting		
Antimony	.077	.035	
Arsenic	.056	.023	
Lead	.011	.005	
Zinc	.039	.016	
Ammonia (as N)	.000	.000	
Total suspended solids	1.107	.527	
pH	(1)	(¹)	

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart M—Employee Respirator

BPT EFFULENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.126	.056
Arsenic	.092	.038
Lead	.018	.009
Zinc	.064	.027
Ammonia (as N)	.000	.000
Total suspended solids	1.804	.858
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart M—Laundering of Uniforms.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.367	.164
Arsenic	.268	.110
Lead	.054	.026
Zinc	.187	.078
Ammonia (as N)	.000	.000
Total suspended solids	5.248	2.496
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49~\mathrm{FR}~8826,~\mathrm{Mar.}~8,~1984,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~49~\mathrm{FR}~29795,~\mathrm{July}~24,~1984]$

§ 421.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart M-Battery Cracking.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony	1.299 .936 .189 .687	.579 .384 .087 .283

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro- duced from smelting	
Antimony	5.038 3.628	2.245 1.488
Lead	.731	.339

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
ZincAmmonia (as N)	2.662 0.000	1.096 0.000

(c) Subpart M—Kettle Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead produced from refining	
Antimony	.087	.039
Arsenic	.063	.026
Lead	.013	.006
Zinc	.046	.019
Ammonia (as N)	.000	.000

(d) Subpart M—Lead Paste Desulfurization.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead producessed through desulfurization	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(e) Subpart M—Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead cast	
Antimony	.042	.019
Arsenic	.031	.013
Lead	.006	.003
Zinc	.022	.009
Ammonia (as N)	.000	.000

(f) Subpart M—Truck Wash.

§421.133

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	.041 .029 .006 .021	.018 .012 .003 .009

(g) Subpart M—Facility Washdown.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(h) Subpart M—Battery Case Classification.

BAT EFFLUENT LIMITATIONS

Pollutant pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million f lead scrap
Antimony	.000 .000 .000 .000	.000. 000. 000. 000.

(i) Subpart M—Employee Handwash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of lead pro- smelting
Antimony	.052 .038 .008 .028	.023 .015 .004 .011

(j) Subpart M—Employee Respirator Wash.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	of lead pro-
Antimony	.085	.038
Arsenic	.061	.025
Lead	.012	.006
Zinc	.045	.018
Ammonia (as N)	.000	.000

(k) Subpart M—Laundering of Uniforms.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.247	.110
Arsenic	.178	.073
Lead	.036	.017
Zinc	.131	.054
Ammonia (as N)	.000	.000

§ 421.134 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart M—Battery Cracking.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony	1,299	.579
Antimony	1.299	.579
Arsenic	.936	.384
Lead	.189	.087
Zinc	.687	.283
Ammonia (as N)	.000	.000
Total suspended solids	10.100	8.076
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	5.038	2.245
Arsenic	3.628	1.488
Lead	.731	.339
Zinc	2.662	1.096
Ammonia (as N)	0.000	0.000
Total suspended solids	39.150	31.320
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart M—Kettle Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	.000	.000
Antimony		
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(¹)

 $^{\mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

 $\begin{array}{ccc} \mbox{(d)} & \mbox{Subpart} & \mbox{M--Lead} & \mbox{Paste} \\ \mbox{Desulfurization}. \end{array}$

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o essed desulfurizat	f lead proc- through
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart M—Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead cast
Antimony	.042 .031 .006 .022 .000	.019 .013 .003 .009 .000

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart M—Truck Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	.041 .029 .006 .021 .000 .315 (¹)	.018 .012 .003 .009 .000 .252 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart M—Facility Washdown.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	of lead pro-
Antimony	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart M—Battery Case Classification.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead scra produced	
Antimony	.000 .000	.000 .000

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	.000 .000 .000 .000 (1)	.000 .000 .000 .000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart M—Employee Handwash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony Arsenic Lead Zinc Ammonia (as N) Total suspended solids pH	.052 .038 .008 .028 .000 .405	.023 .015 .004 .011 .000 .324

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart M—Employee Respirator Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony Arsenic Lead Zinc Ammonia (as N) Total suspended solids pH	.085 .061 .012 .045 .000 .660	.038 .025 .006 .018 .000 .528

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart M—Laundering of Uniforms.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.247 .178 .036	.110 .073 .017
Zinc	.131	.054
Total suspended solids	1.920	1.536

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8826, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.135 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart M—Battery Cracking.

PSES

Maximum for any 1 day	Maximum for monthly average
	ds per million f lead scrap
1.299 .936 .189 .687	.579 .384 .087 .283
	mg/kg (pound pounds) of produced 1.299 936 .189 .687

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	5.038 3.628 .731 2.662 .000	2.245 1.488 .339 1.096

(c) Subpart M—Kettle Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from refining	
Antimony	.087 .063 .013 .046	.039 .026 .006 .019

(d) Subpart M—Lead Paste Desulfurization.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o essed desulfurizat	f lead proc- through
Antimony	.000 .000 .000 .000	.000. 000. 000. 000.

(e) Subpart M—Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Animony	.042 .031 .006 .022 .000	.019 .013 .003 .009

(f) Subpart M—Truck Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.041 .029 .006 .021	.018 .012 .003 .009

(g) Subpart M—Facility Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(h) Subpart M—Battery Case Classification.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(i) Subpart M—Employee Handwash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.052 .038 .008 .028 .000	.023 .015 .004 .011

(j) Subpart M—Employee Respirator Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.085 .061 .012 .045	.038 .025 .006 .018

(k) Subpart M—Laundering of Uniforms.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	
Antimony	178 036 131	.110 .073 .017 .054

§ 421.136 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart M—Battery Cracking.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony	1.299 .936 .189 .687	.579 .384 .087 .283
Ammonia (as N)	.000	.000

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	5.038 3.628 .731 2.662 .000	2.245 1.488 .339 1.096 .000

(c) Subpart M—Kettle Wet Air Pollution Control.

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PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(d) Subpart Desulfurization.

M—Lead Paste

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead proc essed through desulfurization	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

(e) Subpart M—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Antimony	.042 .031 .006 .022 .000	.019 .013 .003 .009

(f) Subpart M—Truck Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.041 .029 .006 .021	.018 .012 .003 .009

(g) Subpart M—Facility Washdown.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead produced from smelting	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(h) Subpart M-Battery Case Classification.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony Arsenic Lead Zinc Ammonia (as N)	.000 .000 .000 .000	.000 .000 .000 .000

(i) Subpart M—Employee Handwash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro duced from smelting	
Antimony	.052 .038 .008 .028 .000	.023 .015 .004 .011

(j) Subpart M—Employee Respirator Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.085 .061 .012 .045	.038 .025 .006 .018

(k) Subpart M—Laundering of Uniforms.

PSNS

Pollutant or pollutant property	Maximum for any 1 day Maximum average	
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.247 .178 .036 .131	.110 .073 .017 .054

§421.137 [Reserved]

Subpart N—Primary Antimony Subcategory

SOURCE: 50 FR 38345, Sept. 20, 1985, unless otherwise noted.

§ 421.140 Applicability: Description of the primary antimony subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of antimony at primary antimony facilities.

§421.141 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.142 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(a) Sodium Antimonate Autoclave Wastewater.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony con tained in sodium antimonate product	
Antimony	44.840	20.000
Arsenic	32.650	14.530
Mercury	3.906	1.562
Total suspended solids	640.600	304.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Fouled anolyte.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony meta produced by electrowinning	
Antimony	44.840	20.000
Arsenic	32.650	14.530
Mercury	3.906	1.562
Total suspended solids	640.600	304.700
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Cathode Antimony Wash Water.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony metal produced by electrowinning	
Antimony	89.680	40.000
Arsenic	65.310	29.060
Mercury	7.812	3.125
Total suspended solids	1,281.000	609.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.143 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

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achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Sodium Antimonate Autoclave Wastewater.

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony con- tained in sodium antimonate product	
Antimony Arsenic Mercury	30.150 21.720 2.344	13.440 9.687 0.937

(b) Fouled Anolyte.

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of antimony metal produced by electrowinning	
Antimony Arsenic Mercury	30.150 21.720 2.344	13.440 9.687 0.937

(c) Cathode Antimony Wash Water

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony metal produced by electrowinning	
Antimony Arsenic Mercury	60.310 43.430 4.687	26.870 19.370 1.875

§ 421.144 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

 $\begin{array}{ccc} \hbox{(a)} & Sodium & Antimonate & Autoclave \\ Wastewater. \end{array}$

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony contained in sodium antimonate product	
Antimony	30.150 21.720 2.344 234.400	13.440 9.687 0.937 187.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Fouled Anolyte.

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of antimon metal produced b electrowinning	
Antimony	30.150	13.440
Arsenic	21.720	9.687
Mercury	2.344	0.937
Total suspended solids	234.400	187.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Cathode Antimony Wash Water.

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of antimon metal produced b electrowinning	
Antimony	60.310 43.430 4.687 468.700 (¹)	26.870 19.370 1.875 375.000

¹ Within the range of 7.5 to 10.0 at all times.

§421.145 [Reserved]

§ 421.146 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment

standards for new sources. The mass of wastewater pollutants in primary antimony process wastewater introduced into a POTW shall not exceed the following values:

(a) Sodium Antimonate Autoclave Wastewater.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony con- tained in sodium antimonate product	
Antimony	30.150 21.720	13.440 9.687
Mercury	2.344	0.937

(b) Fouled Anolyte.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony metal produced by electrowinning	
Antimony Arsenic Mercury	30.150 21.720 2.344	13.440 9.687 0.937

(c) Cathode Antimony Washwater.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony metal produced by electrowinning	
Antimony Arsenic Mercury	60.310 43.430 4.687	26.870 19.370 1.875

§421.147 [Reserved]

Subpart O—Primary Beryllium Subcategory

Source: 50 FR 38346, Sept. 20, 1985, unless otherwise noted.

§ 421.150 Applicability: Description of the primary beryllium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of beryllium by primary beryllium facilities processing beryllium ore concentrates or beryllium hydroxide raw materials.

§ 421.151 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.152 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Solvent Extraction Raffinate from Bertrandite Ore.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of bonate pr	ls per million beryllium car- oduced from re as beryllium
Dom divers	0.700.000	1 005 000
Beryllium	2,763.000	1,235.000
Chromium (total)	988.200	404.300
Copper	4,267.000	2,246.000
Cyanide (total)	651.300	269.500
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000
Total suspended solids	92,090.000	43,800.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times

(b) Solvent Extraction Raffinate from Beryl Ore.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced from bery ore as beryllium	
Beryllium	270.6 96.8	121.0 39.6
Chromium (total)	96.8 418.0	220.0
Copper		
Cyanide (total)	63.8	26.4
Ammonia (as N)	29,330.0	12,890.0
Fluoride	7,700.0	4,378.0
Total suspended solids	9,020.0	4,290.0
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Beryllium Carbonate Filtrate.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car- bonate produced as beryl- lium	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total suspended pH	263.800 94.380 407.600 62.210 28,590.000 7,508.000 8,795.000 (¹)	118.000 38.610 214.500 25.740 12,570.000 4,269.000 4,183.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Beryllium Hydroxide Filtrate.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced as beryl- lium	
Beryllium	167.280 59.840 258.400 39.440 18128.800 4760.000 5576.000	74.800 24.480 136.000 16.320 7969.600 2706.400 2652.000

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

(e) Beryllium Oxide Calcining Furnace Wet Air Pollution Control.

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BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium oxide produced	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total suspended solids	324.000 116.000 501.000 76.470 35,150.000 9,230.000 10,810.000	145.000 47.470 263.700 31.640 15,450.000 5,248.000
pH	(1)	5,142.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Beryllium hydroxide supernatant.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of droxide pr	ds per million beryllium hy- oduced from residues as
Beryllium	282.9	126.5
Chromium (total)	101.2	41.4
Copper	437.0	230.0
Cyanide (total)	66.7	27.6
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0
Total suspended solids	9,430.0	4,485.0
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	215.00	96.14
Chromium (total)	76.91	31.46
Copper	332.10	174.80
Cyanide (total)	50.69	20.98
Ammonia (as N)	23,300.00	10,240.00
Fluoride	6.118.00	3,479.00
Total suspended solids	7,167.00	3,409.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽g) Process water.

⁽h) Fluoride furnace scrubber.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

¹ Within the range of 7.5 to 10.0 at all times.

(i) Chip treatment wastewater.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium treated
Beryllium	9.533	4.263
Chromium (total)	3.410	1.395
Copper	14.730	7.750
Cyanide (total)	2.248	0.930
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200
Total suspended solids	317.800	151.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Beryllium Pebble Plant Area Vent Wet Air Pollution Control.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000
pH	1	1

¹Within the range of 7.5 to 10.0 at all times.

(k) Beryl Ore Gangue Dewatering.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million peryl ore proc-
Beryllium	1.283 0.459 1.982 0.302	0.574 0.188 1.043 0.125
Ammonia (as N)	139.032 36.505 42.763	61.120 20.756 20.339
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{array}{ccc} \hbox{(1)} & \hbox{Bertrandite} & \hbox{Ore} & \hbox{Gangue} \\ \hbox{Dewatering.} \end{array}$

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million bertrandite ore
Beryllium	3.279	1.466
Chromium (Total)	1.173	0.480
Copper	5.064	2.665
Cyanide (Total)	0.773	0.320
Ammonia (as N)	355.245	156.169
Fluoride	93.275	53.034
Total Suspended Solids	109.265	51.968
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Beryl Ore Processing.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of l essed	ls per million beryl ore proc-
Beryllium	8.983	4.017
Chromium (Total)	3.213	1.315
Copper	13.876	7.303
Cyanide (Total)	2.118	0.876
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330
Total Suspended Solids	299.423	142.409
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ls per million total beryllium roduced as be-
Beryllium	575.640 205.920 889.200 135.720 62384.400 16380.000 19188.000	257.400 84.240 468.000 56.160 27424.800 9313.200 9126.000

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	0 0	rtrandite ore essed
Beryllium	1.859	0.831
Chromium (Total)	0.665	0.031
Copper	2.871	1.511
Cyanide (Total)	0.438	0.181
Ammonia (as N)	201.416	88.545
Fluoride	52.885	30.069
Total Suspended Solids	61.951	29.465
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		rtrandite ore essed
Beryllium	0.124	0.056
Chromium (Total)	0.044	0.030
. ,		
Copper	0.192	0.101
Cyanide (Total)	0.029	0.012
Ammonia (as N)	13.463	5.919
Fluoride	3.535	2.010
Total Suspended Solids	4.141	1.970
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990; 55 FR 36932, Sept. 7, 1990]

§ 421.153 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Solvent extraction raffinate from bertrandite ore.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of bonate pre	ds per million beryllium car- oduced from ore as beryl-
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N)	1,842.000 831.000 2,875.000 449.200 299,400.000	831.000 336.900 1,370.000 179.700 131,600.000
Fluoride	78,610.000	44,700.000

(b) Solvent extraction raffinate from beryl ore.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property for any 1 day for month average mg/kg (pounds per mill pounds) of beryllium of	Pollutant or pollutant property	
pounds) of beryllium o bonate produced fr		
		mg/kg (pounds per millio pounds) of beryllium ca bonate produced fro beryl ore as beryllium
,	•	

	• • • • • • • • • • • • • • • • • • • •	
Cyanide (total) 44.0 1	Cyanide (total)	44.0 17
Ammonia (as N)	Ammonia (as N)	29,330.0 12,890
Fluoride 7,700.0 4,37	Fluoride	7,700.0 4,378

(c) Beryllium carbonate filtrate.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced as be ryllium	
Beryllium	175.900	79.370
Chromium (total)	79.370	32.180
Copper	274.600	130.800
Cyanide (total)	42.900	17.160
Ammonia (as N)	28,590.000	12,570.000
Fluoride	7,508.000	4,269.000

(d) Beryllium Hydroxide Filtrate.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium hy- droxide produced as be- ryllium	
Beryllium	111.520	50.320
Chromium (Total)	50.320	20.400
Copper	174.080	82.960
Cyanide (Total)	27.200	10.880
Ammonia (as N)	18128.800	7969.600
Fluoride	4760.000	2706.400

(e) Beryllium oxide calcining furnace wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	,	
		ds per million
		of beryllium
	oxide produ	icea
Beryllium	216.20	97.57
Chromium (total)	97.57	39.56
Copper	337.50	160.90
Cyanide (total)	52.74	21.10
Ammonia (as N)	35,150.00	15,450.00
Fluoride	9,230.00	5,248.00

(f) Beryllium hydroxide supernatant.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of droxide pr	ds per million beryllium hy- oduced from residues as
Beryllium	188.6 85.1 294.4 46.0 30,660.0 160,308.0	85.1 34.5 140.3 18.4 13,480.0 71,201.0

(g) Process water.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliur pebbles produced	
Beryllium	143.30	64.68
Chromium (total)	64.68	26.22
Copper	223.70	106.60
Cyanide (total)	34.96	13.98
Ammonia (as N)	23,300.00	10,240.00
Fluoride	6,118.00	3,479.00

(h) Fluoride furnace scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000 0.000 0.000	0.000 0.000 0.000
Cyanide (total)	0.000 0.000 0.000	0.000 0.000 0.000

(i) Chip treatment wastewater.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliu scrap chips treated	
Beryllium	6.355	2 868

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BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	2.868 9.920 1.550 1,033.000 271.300	1.163 4.728 0.620 454.200 154.200

(j) Beryllium pebble plant area vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of berylliun pebbles produced	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(k) Beryl Ore Gangue Dewatering.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average	
mg/kg (pounds per million pounds) of beryl ore processed		
0.855	0.386 0.156	
1.335	0.156 0.636 0.083	
139.032 36.505	61.120 20.756	
	for any 1 day mg/kg (pounts) c processed 0.855 0.386 1.335 0.209 139.032	

(1) Bertrandite Ore Gangue Dewatering.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium	2.185 0.986 3.411	0.986 0.400 1.626
Cyanide (Total)	0.533	0.213

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	355.245 93.275	156.169 53.034

(m) Beryl Ore Processing.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryl ore processed	
Beryllium	5.988 2.702 9.348 1.461 973.490 255.605	2.702 1.095 4.455 0.584 427.956 145.330

(n) Alumium Iron Sludge (AIS) Area Wastewater.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

CODONIE	GOTTI	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million total beryllium produced as
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride	383.760 173.160 599.040 93.600 62384.400 16380.000	173.160 70.200 285.480 37.440 27424.800 9313.200

(o) Bertrandite Ore Leaching Scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of be	
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885	0.559 0.227 0.922 0.121 88.545 30.069

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of be	rtrandite ore essed
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride	0.083 0.037 0.129 0.020 13.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31698, Aug. 3, 1990]

§ 421.154 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Solvent extraction raffinate from bertrandite ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds million pounds) of beryllium car- bonate produced from bertrandite ore as beryl- lium	
Beryllium	1.842.000	831.000
Chromium (total)	831.000	336.900
Copper	2,875.000	1,370.000
Cyanide (total)	449.200	179.700
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000
Total Suspended solids	33,690.000	26,950.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Solvent extraction raffinate from beryl ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of beryllium ca bonate produced fror beryl ore as beryllium	
Beryllium	180.4	81.4

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total)	81.4	33.0
Copper	281.6	134.2
Cyanide (total)	44.0	17.6
Ammonia (as N)	29,330.0	12,890.0
Fluoride	7,700.0	4,378.0
Total Suspended solids	3,300.0	2,640.0
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Beryllium carbonate filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million beryllium car- duced as be-
475.000	70.070
175.900	79.370
79.370	32.180
274.600	130.800
42.900	17.160
28,590.000	12,579.000
7,508.000	4,269.000
3,218.000	2,574.000
(1)	(1)
	for any 1 day mg/kg (pount pounds) of bonate pro ryllium 175.900 79.370 274.600 42.900 28,590.000 7,508.000 3,218.000

¹ Within the range of 7.5 to 10.0 at all times.

(d) Beryllium hydroxide filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium hy- duced as be-
Beryllium	111.520 50.320 174.080 27.200 18128.800 4760.000 2040.000	50.320 20.400 82.960 10.880 7969.600 2706.400 1632.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Beryllium oxide calcining furnace wet air pollution control.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium iced
Danielli	040.00	07.57
Beryllium	216.20	97.57
Chromium (total)	95.57	39.56
Copper	337.50	160.90
Cyanide (total)	52.74	21.10
Ammonia (as N)	35,150.00	15,450.00
Fluoride	9,230.00	5,248.00
Total suspended solids	3,956.00	3,164.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Beryllium hydroxide supernatant.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

<u></u>		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0
Total Suspended solids	3,450.0	2,760.0
pH	(1)	(1)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

(g) Process water.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliur pebbles produced	
Beryllium	143.30	64.68
Chromium (total)	64.68	26.22
Copper	223.70	106.60
Cyanide (total)	34.96	13.98
Ammonia (as N)	23.300.00	10.240.00
Fluoride	6.118.00	3,479.00
Total suspended solids	2,622,00	2.098.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

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NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Chip treatment wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium treated
Beryllium	6.355 2.868 9.920 1.550 1,033.000 271.300	2.868 1.163 4.728 0.620 454.200 154.200 93.000
pH	(1)	93.000

¹ Within the range of 7.5 to 10.0 at all times.

(j) Beryllium pebble plant area vent wet air pollution control.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽h) Fluoride furnace scrubber.

⁽k) Beryl Ore Gangue Dewatering.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryl ore
Beryllium	0.855	0.386
Chromium (Total)	0.386	0.156
Copper	1.335	0.636
Cyanide (Total)	0.209	0.083
Ammonia (as N)	139.032	61.120
Fluoride	36.505	20.756
Total Suspended Solids	15.645	12.516
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(1) Bertrandite Ore Gangue Dewatering.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium	2.185 0.986 3.411 0.533 355.245 93.275	0.986 0.400 1.626 0.213 156.169 53.034
Total Suspended SolidspH	39.975 (¹)	31.980 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Beryl Ore Processing.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of processed	
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride Total Suspended Solids	5.988 2.702 9.348 1.461 973.490 255.605 109.545	2.702 1.095 4.455 0.584 427.956 145.330 87.636
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million total beryllium produced as
Beryllium	383.760 173.160 599.040 93.600 62384.400 16380.000 7020.000 (1)	173.160 70.200 285.480 37.440 27424.800 9313.200 5616.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of be	
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885 22.665	0.559 0.227 0.922 0.121 88.545 30.069 18.132
pH	(1)	(1)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Beryllium	y 1 y g of be	Maximum for monthly average rtrandite ore essed
Beryllium	,	
Chromium (Total)		
Ammonia (as N) 13	0.083 0.037 0.129 0.020 3.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010 1.212

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38346,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31699,~{\rm Aug.}~3,~1990]$

§421.155 [Reserved]

§ 421.156 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary beryllium process wastewater introduced into a POTW shall not exceed the following values:

(a) Solvent extraction raffinate from bertrandite ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced fron bertrandite ore as beryl lium	
Beryllium	1,842.000 831.000 2,875.000 449.200 299,400.000 78,610.000	831.000 336.900 1,370.000 179.700 131.600.000 44,700.000

(b) Solvent extraction raffinate from beryl ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium car- bonate produced from beryl ore as beryllium	
Beryllium	180.4	81.4
Chromium (total)	81.4	33.0
Copper	281.6	134.2
Cyanide (total)	44.0	17.6
Ammonia (as N)	29.330.0	12,890.0
Fluoride	7,700.0	4,378.0

(c) Beryllium carbonate filtrate.

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PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium car- duced as be-
Beryllium	175.900	79.370
Chromium (total)	79.370	32.180
Copper	274.600	130.800
Cyanide (total)	42.900	17.160
Ammonia (as N)	28,590.000	12,570.000
Fluoride	7,508.000	4,269,000

(d) Beryllium Hydroxide Filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium hy- duced as be-
Beryllium	111.510 50.320 174.080 27.200 18128.800 4760.000	50.320 20.400 82.960 10.880 7969.600 2706.400

(e) Beryllium oxide calcining furnace wet air pollution control.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium oxide produced	
Beryllium	216.20 97.57 337.50 52.74 35,150.00 9,230.00	97.57 39.56 160.90 21.10 15,450.00 5,248.00

(f) Beryllium hydroxide supernatant

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of droxide pr	ds per million beryllium hy- oduced from residues as
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	188.6 85.1 294.4 46.0 30,660.0 160,308.0	85.1 34.5 140.3 18.4 13,480.0 71,201.0

(g) Process water.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per millio pounds of beryllium peb bles produced	
Beryllium	143.30 64.68 223.70 34.96 23,300.00 6,118.00	64.68 26.22 106.60 13.98 10,240.00 3,479.00

$(h) \ Fluoride \ furnace \ scrubber.$

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per millic pounds of beryllium pel bles produced	
Beryllium	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(i) Chip treatment wastewater.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per millio pounds of berylliur scrap chips treated	
Beryllium	6.355	2.868

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	2.868 9.920 1.550 1,033.000 271.300	1.163 4.728 0.620 454.200 154.200

(j) Beryllium pebble plant area vent wet air pollution control

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million peryllium peb- ed
Beryllium	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(k) Beryl Ore Gangue Dewatering.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of beryl o processed	
Beryllium	0.855	0.386
Chromium (Total)	0.386	0.156
Copper	1.335	0.636
Cyanide (Total)	0.209	0.083
Ammonia (as N)	139.032	61,120
Fluoride	36.505	20.756

(1) Bertrandite Ore Gangue Dewatering.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of bertrandite sed
Beryllium	2.185 0.986 3.411 0.533	0.986 0.400 1.626 0.213

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	355.245 93.275	156.169 53.034

(m) Beryl Ore Processing.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of processed	
Beryllium	5.988	2.702
Chromium (Total)	2.702	1.095
Copper	9.348	4.455
Cyanide (Total)	1.461	0.584
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

PSNS FOR THE PRIMARY BERRYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium	
Domillium	383.760	170 100
Beryllium		173.160
Chromium (Total)	173.160	70.200
Copper	599.040	285.480
Cyanide (Total)	93.600	37.440
Ammonia (as Ń)	62384.400	27424.800
Fluoride	16380.000	9313.200

(o) Bertrandite Ore Leaching Scrubber.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		rtrandite ore essed
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885	0.559 0.227 0.922 0.121 88.545 30.069

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		rtrandite ore essed
Beryllium	0.083 0.037 0.129 0.020 13.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31700, Aug. 3, 1990]

§ 421.157 [Reserved]

Subpart P—Primary and Secondary Germanium and Gallium Subcategory

SOURCE: 50 FR 38350, Sept. 20, 1985, unless otherwise noted.

§ 421.180 Applicability: Description of the primary and secondary germanium and gallium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of germanium or gallium from primary and secondary germanium and gallium facilities.

§ 421.181 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.182 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Still liquor.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
ArsenicLeadZinc	131.700 26.460 91.980	58.590 12.600 38.430
Fluoride	2,205.000	1,254.000
Total suspended solids	2,583.000	1,229.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorinator wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic Lead Zinc Fluoride Total suspended solids pH	27.530 5.531 19.230 461.000 540.000 (¹)	12.250 2.634 8.034 262.100 256.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Germanium hydrolysis filtrate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium hydrolyzed	
Arsenic	39.440	17.550
Lead	7.925	3.774
Zinc	27.550	11.510
Fluoride	660.500	375.500
Total suspended solids	773.700	368.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	325.500 65.400	144.800 31.140
Zinc	227.400	94.990
Fluoride	5,450.000	3,099.000
Total suspended solids	6,385.000	3,037.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Gallium hydrolysis filtrate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) hydrolyzed	
Arsenic	70.450 14.160 49.220 1,180.000 1,382.000 (¹)	31.350 6.742 20.560 670.800 657.300

¹ Within the range of 7.5 to 10.0 at all times.

(f) Solvent extraction raffinate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium pro- duced by solvent extrac- tion	
Arsenic	39.330	17.500
Lead	7.904	3.764
Zinc	27.480	11.480
Fluoride	658.700	374.500
Total suspended solids	771.600	367.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽d) Acid wash and rinse water.

§ 421.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Still liquor.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
ArsenicLeadZincFluoride	131.700 26.460 91.980 2,205.000	58.590 12.600 38.430 1,254.000

(b) Chlorinator wet air pollution control

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium chlorinated	
Arsenic	27.530 5.531 19.230 461.000	12.250 2.634 8.034 262.100

(c) Germanium hydrolysis filtrate.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium hydrolyzed	
Arsenic	39.440 7.925	17.550 3.774

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	27.550 660.500	11.510 375.500

(d) Acid wash and rinse water.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium washed	
Arsenic	325.50	144.80
Lead	65.40	31.14
Zinc	227.40	94.99
Fluoride	5,450.00	3,099.00

(e) Gallium hydrolysis filtrate.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of germaniun hydrolyzed	
70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800
	mg/kg (pound pounds) o hydrolyzed 70.450 14.160 49.220

(f) Solvent extraction raffinate.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUB-CATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million gallium pro- olvent extrac-
Arsenic	39.330 7.904	17.500 3.764
Zinc Fluoride	27.480 658.700	11.480 374.500

§ 421.184 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Still liquor.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	131.70	58.59
Lead	26.46	12.60
Zinc	91.98	38.43
Fluoride	2,205.00	1,254.00
Total suspended solids	2,583.00	1,229.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorinator wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	27.530	12.250
Lead	5.531	2.634
Zinc	19.230	8.034
Fluoride	461.000	262.100
Total suspended solids	540.000	256.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Germanium hydrolysis filtrate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for 1 one day	Maximum for monthly average
	mg/kg pound pounds) o hydrolyzed	ls per millior f germanium
Arsenic Lead Zinc Fluoride Total suspended solids pH	39.440 7.925 27.550 660.500 773.700	17.550 3.774 11.510 375.500 368.000
h⊔	(.)	(.)

¹Within the range of 7.5 to 10.0 at all times.

(d) Acid wash and rinse water.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	325.50	144.80
Lead	65.40	31.14
Zinc	227.40	94.99
Fluoride	5,450.00	3,099.00
Total suspended solids	6,385.00	3,037.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Gallium hydrolysis filtrate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) hydrolyzed	ds per million of gallium
Arsenic	70.450	31.350
LeadZinc	14.160 49.220	6.742 20.560
Fluoride	1,180.000	670.800
Total suspended solids	1,382.000	657.300
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Solvent extraction raffinate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of gallium pr duced by solvent extra tion	
Arsenic Lead	39.330 7.904 27.480 658.700 771.600	17.500 3.764 11.480 374.500 367.000

¹ Within the range of 7.5 to 10.0 at all times.

§421.185 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing

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sources. The mass of wastewater pollutants in primary and secondary germanium and gallium process wastewater introduced into a POTW must not exceed the following values:

(a) Still liquor.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	131.70 26.46	58.59 12.60
ZincFluoride	91.98 2,205.00	38.43 1,254.00

(b) Chlorinator wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
Arsenic	27.530	12.250
Lead	5.531	2.634
Zinc	19.230	8.034
Fluoride	461.000	262.100

(c) Germanium hydrolysis filtrate.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o hydrolyzed	ds per million f germanium
Arsenic	39.440	17.550
Lead	7.925	3.774
Zinc	27.550	11.510
Fluoride	660.500	375.500

(d) Acid wash and rinse water.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
ArsenicLeadZincFluoride	325.50 65.40 227.40 5,450.00	144.80 31.14 94.99 3,099.00

(e) Gallium hydrolysis filtrate.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of gallium
Arsenic	70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800

(f) Solvent extraction raffinate.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million gallium pro- olvent extrac-
ArsenicLeadZincFluoride	39.330 7.904 27.480 658.700	17.500 3.764 11.480 374.500

§ 421.186 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary and secondary germanium and gallium process wastewater introduced into a POTW shall not exceed the following values:

(a) Still Liquor.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of chlorinated	
Arsenic Lead Zinc	131.70 26.46 91.98	58.59 12.60 38.43
Fluoride	2,205.00	1,254.00

(b) Chlorinator Wet Air Pollution Control.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of chlorinated	
Arsenic	27.530 5.531 19.230 461.000	12.250 2.634 8.034 262.100

(c) Germanium Hydrolysis Filtrate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of hydrolyzed	
Arsenic Lead Zinc Fluoride	39.440 7.925 27.550 660.500	17.550 3.774 11.510 375.500

(d) Acid Wash and Rinse Water.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of washed	ds per/million f germanium
Arsenic	325.50	144.80
Lead	65.40	31.14
Zinc	227.40	94.99
Fluoride	5,450.00	3,099.00

(e) Gallium Hydrolysis Filtrate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium hydrolyzed	
Arsenic Lead Zinc Fluoride	70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800

(f) Solvent Extraction Raffinate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		s per million gallium pro- vent extraction
ArsenicLeadZincFluoride	39.330 7.904 27.480 658.700	17.500 3.764 11.480 374.500

§421.187 [Reserved]

Subpart Q—Secondary Indium Subcategory

Source: 50 FR 38353, Sept. 20, 1985, unless otherwise noted.

§421.190 Applicability: Description of the secondary indium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of indium at secondary indium facilities processing spent electrolyte solutions and scrap indium metal raw materials.

§ 421.191 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§§ 421.192–421.193 [Reserved]

§ 421.194 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Displacement Supernatant.

NSPS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million indium metal
Cadmium	2.105	0.929
Lead	2.600	1.238
Zinc	9.037	3.776
Indium	2.724	1.114
Total suspended solids	253.800	120.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Spent Electrolyte.

NSPS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million cathode indium
Cadmium	12.170	5.370
Lead	15.040	7.160
Zinc	52.270	21.840
Indium	15.750	6.444
Total suspended solids	1,468.000	698.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.195 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary indium process wastewater introduced into a POTW must not exceed the following values:

(a) Displacement Supernatant.

PSES FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of indium metal produced	
Cadmium	2.105 2.600 9.037 2.724	0.929 1.238 3.776 1.114

(b) Spent Electrolyte.

PSES FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode indium produced	
Cadmium Lead Zinc Indium	12.170 15.040 52.270 15.750	5.370 7.160 21.840 6.444

§ 421.196 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary indium process wastewater introduced into a POTW should not exceed the following values:

(a) Displacement Supernatant.

PSNS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million indium metal
Cadimum	2.105	0.929
Lead	2.600	1.238
Zinc	9.037	3.776
Indium	2.724	1.114

(b) Spent Electrolyte.

PSNS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode indium produced	
CadmiumLeadZincIndium	12.170 15.040 52.270 15.750	5.370 7.160 21.840 6.444

§ 421.197 [Reserved]

Subpart R—Secondary Mercury Subcategory

Source: $50 \ \mathrm{FR} \ 38354$, Sept. 20, 1985, unless otherwise noted.

§ 421.200 Applicability: Description of the secondary mercury subcategory.

The provision of this subpart are applicable to discharges resulting from the production of mercury from secondary mercury facilities processing recycled mercuric oxide batteries and other mercury containing scrap raw materials.

§ 421.201 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§§ 421.202-421.203 [Reserved]

§ 421.204 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Spent battery electrolyte.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mercury pro duced from batteries	
Lead Mercury Total suspended solids pH	0.030 0.016 1.590	0.014 0.006 1.272 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Acid wash and rinse water.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of mercur washed and rinsed	
Lead	0.00056	0.00026

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Mercury	0.00030	0.00012
Total suspended solids	0.03000	0.02400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Furnace wet air pollution control.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of mercury prod essed through furnace	
Lead Mercury Total suspended solidspH	0.000 0.000 0.000 (1)	0.000 0.000 0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.205 [Reserved]

§ 421.206 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary mercury process wastewater introduced into a POTW shall not exceed the following values:

(a) Spent battery electrolyte.

PSNS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury pro duced from batteries	
Lead Mercury	0.030 0.016	0.014 0.006

(b) Acid wash and rinse water.

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PSNS FOR THE SECONDARY MERCURY
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercun washed and rinsed	
Lead Mercury	0.00056 0.00030	0.00026 0.00012

(c) Furnance wet air pollution control.

PSNS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds of mercury proc- essed through furnace	
Lead Mercury	0.000 0.000	0.000 0.000

§ 421.207 [Reserved]

Subpart S—Primary Molybdenum and Rhenium Subcategory

Source: 50 FR 38355, Sept. 20, 1985, unless otherwise noted.

§ 421.210 Applicability: Description of the primary molybdenum and rhenium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of molybdenum and rhenium facilities.

§ 421.211 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.212 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitation representing the degree of effluent reduction attainable by the application

of the best practicable technology currently available:

(a) Molybdenum sulfide leachate.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum monthly av- erage
		ds per million molybdenum hed
Arsenic Lead Nickle Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	0.968 0.195 0.889 0.570 [Reserved] 61.720 16.210 18.980	0.431 0.093 0.588 0.255 [Reserved]. 27.130 9.214 9.029 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Roaster SO₂ scrubber.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds pounds) of sulfide roaste	
Arsenic	3.509 0.705 3.224 2.065 [Reserved] 223.800 58.770 68.840	1.561 0.336 2.133 0.924 [Reserved]. 98.390 33.410 32.740
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Molybdic oxide leachate.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million molybdenum in molybdic ed
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	24.210 4.865 22.240 14.250 [Reserved] 1,544.000 405.400 474.900 (¹)	10.770 2.317 14.710 6.371 [Reserved] 678.800 230.500 225.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Hydrogen reduction furnace scrubber.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum er produced
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	47.860 9.617 43.970 28.170 [Reserved] 3,052.000 801.400 938.800	21.300 4.580 29.080 12.600 [Reserved] 1,342.000 455.700 446.500

¹ Within the range of 7.5 to 10.0 at all times.

(e) Depleted rhenium scrubbing solution.

BPT LIMITATIONS FOR THE PRIMARY
MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum ted
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	1.497 0.301 1.375 0.881 [Reserved] 95.440 25.060 29.360 (1)	0.666 0.143 0.909 0.394 [Reserved] 41.960 14.250 13.960

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38355,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31701,~{\rm Aug.}~3,~1990]$

§ 421.213 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the appli-

cation of the best available technology economically achievable:

(a) Molybdenum sulfide leachate.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		inds million molybdenum hed
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	0.644 0.130 0.255 0.380 [Reserved] 61.720 16.210	0.287 0.060 0.171 0.171 [Reserved] 27.130 9.214

(b) Roaster SO₂ scrubber.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/millio pounds) of molybdenur sulfide roasted	
Arsenic	2.334	1.041
Lead	0.470	0.218
Nickel	0.924	0.621
Selenium	1.377	0.621
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	223.800	98.390
Fluoride	58.770	33.410

(c) Molybdic oxide leachate.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of molybdenum contained in molybdic oxide leached	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	16.100 3.244 6.371 9.499 [Reserved] 1,544.000 405.400	7.182 1.506 4.286 4.286 [Reserved] 678.800 230.500

(d) Hydrogen reduction furnace scrubber.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of molybdenum metal powder produced	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	3.183 0.641 1.260 1.878 [Reserved] 305.300 80.150	1.420 0.298 0.847 0.847 [Reserved]. 134.200 45.570

(e) Depleted rhenium scrubbing solution.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of molybdenum sulfide roasted	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	0.995 0.201 0.394 0.587 [Reserved] 95.440 25.060	0.444 0.093 0.265 0.265 [Reserved]. 41.960 14.250

 $[50~\mathrm{FR}~38355,~\mathrm{Sept.}~20,~1985,~\mathrm{as}~\mathrm{amended}~\mathrm{at}~55~\mathrm{FR}~31701,~31702,~\mathrm{Aug.}~3,~1990]$

§ 421.214 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Molybdenum sulfide leachate.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of sulfide leac	molybdenum
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids	0.644 0.130 0.255 0.380 [Reserved] 61.720 16.210 6.945	0.287 0.060 0.171 0.171 [Reserved]. 27.130 9.214 5.556
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

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(b) Roaster SO_2 scrubber.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of sulfide roas	molybdenum
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N)	2.334 0.470 0.924 1.377 [Reserved] 223.800	1.041 0.218 0.621 0.621 [Reserved]. 98.390
Fluoride Total suspended solidspH	58.770 25.190 (¹)	33.410 20.150 (¹)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

(c) Molybdic oxide leachate.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		molybdenum in molybdio
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	16.100 3.244 6.371 9.499 [Reserved] 1,544.000 405.400 173.800	7.182 1.506 4.286 4.286 [Reserved]. 678.800 230.500 139.000

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{array}{ccc} (d) & Hydrogen & reduction & furnace \\ scrubber. \end{array}$

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of molybdenum metal powder produced	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	3.183 0.641 1.260 1.878 [Reserved] 305.300 80.150 34.350 (1)	1.420 0.298 0.847 0.847 [Reserved]. 134.200 45.570 27.480 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Depleted rhenium scrubbing solution.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly
	day	average
	ma/ka (pound	ds per million
	pounds) of molybdenum	
	sulfide roasted	
Arsenic	0.995	0.444
Lead	0.201	0.093
Nickel	0.394	0.265
Selenium	0.587	0.265
Molybdenum	[Reserved]	[Reserved].
Ammonia (as N)	95.440	41.960
Fluoride	25.060	14.250
Total suspended solids	10.740	8.592
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38355,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31702,~{\rm Aug.}~3,~1990]$

§421.215 [Reserved]

§ 421.216 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary molybdenum and rhenium process wastewater introduced into a POTW shall not exceed the following values:

(a) Molybdenum sulfide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of molybdenui sulfide leached	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	0.644 0.130 0.255 0.380 [Reserved] 61.720 16.210	0.287 0.060 0.171 0.171 [Reserved]. 27.130 9.214

⁽b) Roaster SO₂ scrubber.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property		Maximum for monthly average ds per million molybdenum ted
n	pounds) of	molybdenum
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	2.334 0.470 0.924 1.377 [Reserved] 223.800 58.770	1.041 0.218 0.621 0.621 [Reserved]. 98.390 33.410

(c) Molybdic oxide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of molybdenun contained in molybd oxide leached	
Arsenic	16.100	7.182
Lead	3.244	1.506
Nickel	6.371	4.286
Selenium	9.499	4.286
Molybdenum	[Reserved]	[Reserved].
Ammonia (as N)	1,544.000	678.800
Fluoride	405.400	230.500

 $\begin{array}{ll} \hbox{(d)} & \hbox{Hydrogen} & \hbox{reduction} & \hbox{furnace} \\ \hbox{scrubber}. \end{array}$

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum er produced
Arsenic	3.183 0.641 1.260 1.878 [Reserved] 305.300	1.420 0.298 0.847 0.847 [Reserved]. 134.200
Fluoride	80.150	45.570

⁽e) Depleted rhenium scrubbing solution.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum ted
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	0.995 0.201 0.394 0.587 [Reserved] 95.440 25.060	0.444 0.093 0.265 0.265 [Reserved]. 41.960 14.250

[50 FR 38355, Sept. 20, 1985, as amended at 55 FR 31702, 31703, Aug. 3, 1990]

§421.217 [Reserved]

Subpart T—Secondary Molybdenum and Vanadium Subcategory

Source: 50 FR 38357, Sept. 20, 1985, unless otherwise noted.

§ 421.220 Applicability: Description of the secondary molybdenum and vanadium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of molybdenum or vanadium by secondary molybdenum and vanadium facilities.

$\S 421.221$ Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.222 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Leach tailings.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) grade moly vanadium	ds per million of technical /bdenum plus plus pure /bdenum pro-
Arsenic	40.778	18.145
Chromium	8.585	3.512
Lead	8.195	3.902
Nickel	37.460	24.779
Iron	23.410	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000
Total Suspended Solids	799.950	380.460
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Molybdenum filtrate solvent extraction raffinate.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milling pounds) of technic grade molybdenum plus pungrade molybdenum produced	
Arsenic	121.720 25.625 24.460 111.819 69.887 [Reserved] 24114.000 2387.800	54.162 10.483 11.648 73.964 35.526 [Reserved] 10600.000 1135.660
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Vanadium decomposition wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY
MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of vanadiu produced by decompos tion	
Arsenic	0.000	0.000
Chromium	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Iron	0.000	0.000
Molybdenum	0.000	0.000

BPT LIMITATIONS FOR THE SECONDARY MOLYB-DENUM AND VANADIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Molybdenum drying wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million molybdenum
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N) Total suspended solids	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of denum produ	pure molyb-
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N) Total Suspended Solids	48.655 10.243 9.778 44.698 27.936 [Reserved] 9638.000 954.480	21.650 4.190 4.656 29.566 14.201 [Reserved] 4237.000 453.960
<u>pH</u>	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38357,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31703,~{\rm Aug.}~3,~1990]$

§ 421.223 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Leach Tailings.

BAT LIMITATIONS FOR THE SECONDARY
MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of technica grade molybdenum plu vanadium plus pur grade molybdenum pro duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536
Nickel	10.731	7.219
Iron	23.413	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000

(b) Molybdenum filtrate solvent extraction raffinate.

BAT LIMITATIONS FOR THE SECONDARY
MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of technica grade molybdenum plu vanadium plus pur grade molybdenum pro duced	
Ausania	80.952	36.108
Arsenic		
Chronium	21.548	8.736
Lead	16.306	7.571
Nickel	32.031	21.548
Iron	69.887	35.526
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	24114.000	10600.000

(c) Vanadium decomposition wet air pollution control.

⁽e) Pure Grade Molybdenum.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of vanadiur produced by decompos tion	
Arsenic	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(d) Molybdenum drying wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of molybdenur produced	
Arsenic	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(e) Pure Grade Molybdenum.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/kg (pounds per million pounds) of pure molyb denum produced		
Arsenic Chromium Lead Nickel	32.359 8.614 6.518 12.804	14.434 3.492 3.026 8.614	
Iron	27.936 [Reserved] 9638.000	14.201 [Reserved] 4237.000	

 $[50~{\rm FR}~38357,~{\rm Sept.}~20,~1985,~{\rm as}~{\rm amended}~{\rm at}~55~{\rm FR}~31703,~31704,~{\rm Aug.}~3,~1990]$

§ 421.224 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Leach tailings.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of technic grade molybdenum plu vanadium plus pu grade molybdenum pro duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536
Nickel	10.731	7.219
Iron	23.413	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000
Total Suspended Solids	292.665	234.132
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Molybdenum filtrate solvent extraction raffinate.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of technic grade molybdenum pl vanadium plus pu grade molybdenum pr duced	
Arsenic	80.952 21.548 16.306 32.031 69.887 [Reserved] 24114.000 873.585	36.108 8.736 7.571 21.548 35.526 [Reserved] 10600.000 698.868
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Vanadium decomposition wet air pollution control.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum um produced
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N)	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	0.000 (¹)	0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Molybdenum drying wet air pollution control.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million molybdenum um produced
Arsenic	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Pure Grade Molybdenum.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of pure molyb denum produced	
Arsenic	32.359 8.614 6.518 12.804 27.936 [Reserved] 9638.000 349.200	14.434 3.492 3.026 8.614 14.201 [Reserved] 4237.000 279.360

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38357,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31704,~{\rm Aug.}~3,~1990]$

§ 421.225 [Reserved]

§421.226 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must

comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary molybdenum and vanadium process wastewater introduced into a POTW shall not exceed the following values:

(a) Leach tailings.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of technic grade molybdenum pl vanadium plus pu grade molybdenum pi duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536
Nickel	10.731	7.219
Iron	23.413	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000

(b) Molybdenum filtrate solvent extraction raffinate.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of technic grade molybdenum pl vanadium plus pu grade molybdenum pr duced	
Arsenic	80.952 21.548 16.306 32.031 69.887 [Reserved] 24114.000	36.108 8.736 7.571 21.548 35.526 [Reserved] 10600.000

(c) Vanadium decomposition wet air pollution control.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANDADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) vanadium pro duced by decomposition	
Arsenic	0.000	0.000

PSNS FOR THE SECONDARY MOLYBDENUM AND VANDADIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Iron	0.000	0.000
Molybdenum	0.000	0.000
Ammonia (as N)	0.000	0.000

(d) Molybdenum drying wet air pollution control.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANDADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million molybdenum
Arsenic	0.000	0.000
Chromium	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Iron	0.000	0.000
Molybdenum	0.000	0.000
Ammonia (as N)	0.000	0.000

(e) Pure Grade Molybdenum.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure molyb denum produced	
Arsenic	32.359 8.614 6.518 12.804 27.936 [Reserved] 9638.000	14.434 3.492 3.026 8.614 14.201 [Reserved] 4237.000

 $[50~{\rm FR}~38357,~{\rm Sept.}~20,~1985,~{\rm as}~{\rm amended}~{\rm at}~55~{\rm FR}~31704,~31705~{\rm Aug.}~3,~1990]$

§ 421.227 [Reserved]

Subpart U—Primary Nickel and Cobalt Subcategory

Source: 50 FR 38359, Sept. 20, 1985, unless otherwise noted.

§ 421.230 Applicability: Description of the primary nickel and cobalt subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of nickel or cobalt by primary nickel and cobalt facilities processing ore concentrate raw materials.

§ 421.231 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.232 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Raw Material dust control.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		copper, nick- obalt in the
Copper	0.146 0.148 10.260 0.016 3.157 (¹)	0.077 0.098 4.512 0.007 1.502 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Nickel wash water.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per mill pounds) of nickel power washed	
Copper	0.064	0.034

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	0.065 4.515 0.007 1.389 (¹)	0.043 1.985 0.003 0.660 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel produced	
Copper	24.120 24.370 1,692.000 2.666 520.500 (¹)	12.700 16.120 743.900 1.143 247.600

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(d) Cobalt reduction decant.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produce	
Copper Nickel	40.660 41.080 2,852.000 4.494 877.300 (¹)	21.400 27.180 1,254.000 1.926 417.300 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.233 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Raw material dust control.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper, nick- el, and cobalt in the crushed raw material	
Copper	0.099 0.042 10.260 0.011	0.047 0.028 4.512 0.005

(b) Nickel wash water.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of nickel powde washed	
Copper Nickel Ammonia (as N) Cobalt	0.043 0.019 4.515 0.005	0.021 0.013 1.985 0.002

(c) Nickel reduction decant.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel produced	
Copper	16.250 6.982 1,692.000 1.777	7.744 4.697 743.900 0.889

(d) Cobalt reduction decant.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

mum ny 1 y	Maximum for monthly average
mg/kg (pounds per millior pounds) of cobalt produce	
7.390 1.770 2.000 2.996	13.050 7.917 1,254.000 1.498

[50 FR 38359, Sept. 20, 1985; 50 FR 41144, Oct. 9, 1985]

⁽c) Nickel reduction decant.

§ 421.234 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Raw Material Dust Control.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million copper, nick- obalt in the v material
Copper	0.099 0.042	0.047 0.028
Ammonia (as N)	10.260	4.512
Cobalt	0.011	0.005
Total suspended solids	1.155	0.924
pH	1	1

¹ Within the range of 7.5 to 10.0 at all times.

(b) Nickel wash water.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million nickel powder
Copper	0.043	0.021
Nickel	0.019	0.013
Ammonia (as N)	4.515	1.985
Cobalt	0.005	0.002
Total suspended solids	0.508	0.406
pH	1	1

¹ Within the range of 7.5 to 10.0 at all times.

(c) Nickel reduction decant.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel produced	
Copper	16.250 6.982 1,692.000 1.777 190.400	7.744 4.697 743.900 0.889 152.300

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(d) Cobalt reduction decant.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
Copper Nickel Ammonia (as N)	27.390 11.770 2,852.000	13.050 7.917 1,254.000
Cobalt	2.996	1.498
Total suspended solids	321.000	256.800
pH	1	1

¹ Within the range of 7.5 to 10.0 at all times.

§421.235 [Reserved]

§ 421.236 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with a 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary nickel and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Raw material dust control.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper, nick el, and cobalt in the crushed raw material	
Copper	0.099 0.042 10.260 0.011	0.047 0.028 4.512 0.005

(b) Nickel wash water.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel powde washed	
Copper Nickel Ammonia (as N) Cobalt	0.043 0.019 4.515 0.005	0.021 0.013 1.985 0.002

(c) Nickel reduction decant.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) nickel produced	
Copper	16.250	7.744
Nickel	6.982	4.697
Ammonia (as N)	1,692.000	743.900
Cobalt	1.777	0.889

(d) Cobalt reduction decant.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
CopperNickel	27.390 11.770	13.050 7.917
Ammonia (as N)Cobalt	2,852.000 2.996	1,254.000 1.498

§421.237 [Reserved]

Subpart V—Secondary Nickel Subcategory

SOURCE: 50 FR 38360, Sept. 20, 1985, unless otherwise noted.

§421.240 Applicability: Description of the secondary nickel subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of nickel by secondary nickel facilities processing slag, spent acids, or scrap metal raw materials.

§ 421.241 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR 401 shall apply to this subpart.

§§ 421.242-421.243 [Reserved]

§ 421.244 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Slag reclaim tailings.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of slag input t reclaim process	
Chromium (total)	5.653	2.313
Copper	24.410	12.850
Nickel	24.670	16.320
Total suspended solids	526.800	250.500
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Acid reclaim leaching filtrate.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of acid reclair nickel produced	
Chromium (total)	2.198 9.491 9.590	0.899 4.995 6.344
Total suspended solidspH	204.800	97.400 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Acid reclaim leaching belt filter backwash.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million acid reclaim uced
Chromium (total) Copper Nickel Total suspended solids pH	0.528 2.278 2.302 49.160 (¹)	0.216 1.199 1.523 23.380 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.245 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary nickel process

wastewater introduced into a POTW must not exceed the following values:

(a) Slag reclaim tailings.

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of slag input to reclaim process	
Chromium (total)	5.653 24.410 24.670	2.313 12.850 16.320

(b) Acid reclaim leaching filtrate.

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	2.198 9.491 9.590	0.899 4.995 6.344

(c) Acid reclaim leaching belt filter backwash

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	0.528 2.278 2.302	0.216 1.199 1.523

§ 421.246 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary nickel process wastewater introduced into a POTW shall not exceed the following values:

(a) Slag reclaim tailings.

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PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of reclaim pro	slag input to
Chromium (total)	5.653 24.410 24.670	2.313 12.850 16.320

(b) Acid reclaim leaching filtrate.

PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	2.198	0.899
Copper	9.491	4.995
Nickel	9.590	6.344

(c) Acid reclaim leaching belt filter backwash.

PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclain nickel produced	
Chromium (total)	0.528 2.278 2.302	0.216 1.199 1.523

§ 421.247 [Reserved]

Subpart W—Primary Precious Metals and Mercury Subcategory

Source: $50 \ \mathrm{FR}$ 38361, Sept. 20, 1985, unless otherwise noted.

§ 421.250 Applicability: Description of the primary precious metals and mercury subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of gold, silver, or mercury by primary precious metals and mercury facilities.

§ 421.251 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.252 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Smelter wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounc	
Lead	0.546	0.260
Mercury	0.325	0.130
Silver	0.533	0.221
Zinc	1.898	0.793
Gold	0.130	
Oil and grease	26.000	15.600
Total suspended solids	53.300	25.350
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Silver chloride reduction spent solution.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy our reduced i	nce of silver n solution
Lead	0.168	0.080
Mercury	0.100	0.040
Silver	0.164	0.068
Zinc	0.584	0.244
Gold	0.040	
Oil and grease	8.000	4.800
Total suspended solids	16.400	7.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Electrolytic cells wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold ctrolytically
Lead	83.160	39.600
Mercury	49.500	19.800
Silver	81.180	33.660
Zinc	289.100	120.800
Gold	19.800	
Oil and grease	3,960.000	2,376.000
Total suspended solids	8,118.000	3,861.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Electrolyte preparation wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ce of silver in produced
Lead	0.021	0.010
Mercury	0.013	0.005
Silver	0.021	0.009
Zinc	0.073	0.031
Gold	0.005	
Oil and Grease	1.000	0.600
Total suspended solids	2.050	0.975
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Calciner wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	78.200 46.550 76.340 271.900 18.600	37.240 18.620 31.650 113.600
Oil and Grease	3,724.000 7,634.000	2,234.000 3,631.000
pH	(.)	(.)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Calcine quench water.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	7.392	3.520
	1	0.000
Mercury	4.400	1.760
Silver	7.216	2.992
Zinc	25.700	10.740
Gold	1.760	
Oil and Grease	352.000	211.200
Total suspended solids	721.600	343.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Calciner stack gas contact cooling water.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	1.743	0.830
		1
Mercury	1.038	0.415
Silver	1.702	0.706
Zinc	6.059	2.532
Gold	0.415	
Oil and Grease	83.000	49.800
Total suspended solids	170.200	80.930
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	5.796	2.760
Mercury	3.450	1.380
Silver	5.658	2.346
Zinc	20.150	8.418
Gold	1.380	
Oil and Grease	276.000	165.600
Total suspended solids	565.800	269.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead Mercury Silver Zinc Gold Oil and Grease Table Supposed colife	0.588 0.350 0.574 2.044 0.140 28.000 57.400	0.280 0.140 0.238 0.854
Total suspended solidspH	57.400 (1)	27.300 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.253 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Smelter wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of gold and silver smelted	
0.364	0.169
0.195	0.078
0.377	0.156
1.326	0.546
0.130	
	any 1 day mg/troy ounce silver silve

(b) Silver chloride reduction spent solution.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver reduced in solution	
Lead	0.112	0.052
Mercury	0.060	0.024
Silver	0.116	0.048
Zinc	0.408	0.168

⁽h) Condenser blowdown.

⁽i) Mercury cleaning bath water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Gold	0.040	

(c) Electrolytic cells wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		of gold refined lytically
Lead	5.544	2.574
Mercury	2.970	1.188
Silver	5.742	2.376
Zinc	20.200	8.316
Gold	1.980	

(d) Electrolyte preparation wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver in electrolyte produced	
Lead Mercury Silver Zinc	0.014 0.008 0.015 0.051	0.007 0.003 0.006 0.021
Gold	0.005	

(e) Calciner Wet Air Pollution Control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead Mercury	6.160 3.300	2.860 1.320
Silver	6.380	2.640
Zinc	22.440	9.240
Gold	2.200	

(f) Calcine quench water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	4.928	2.288
Mercury	2.640	1.056
Silver	5.104	2.112
Zinc	17.950	7.392
Gold	1.760	

(g) Calciner stack gas contact cooling water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	1.162 0.623 1.204 4.233 0.415	0.540 0.249 0.498 1.743

(h) Condenser blowdown.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	3.864	1.794
Mercury	2.070	0.828
Silver	4.002	1.656
Zinc	14.080	5.796
Gold	1.380	

(i) Mercury cleaning bath water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury con- densed	
Lead Mercury	0.392 0.210	0.182 0.084
Silver	0.406	0.168
Zinc	1.428	0.588

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Gold	0.140	

§ 421.254 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Smelter wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of gold and melted
Lead	0.364	0.169
Mercury	0.195	0.078
Silver	0.377	0.156
Zinc	1.326	0.546
Gold	0.130	
Oil and Grease	13.000	13.000
Total suspended solids	19.500	15.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Silver chloride reduction spent solution.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of silver n solution
Lead	0.112 0.060 0.116 0.408 0.040	0.052 0.024 0.048 0.168
Oil and Grease Total suspended solids pH	4.000 6.000 (¹)	4.000 4.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Electrolytic cells wet air pollution control.

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NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		of gold refined lytically
Lead	5.544	2.574
Mercury	2.970	1.188
Silver	5.742	2.376
Zinc	20.200	8.316
Gold	1.980	
Oil and Grease	198.000	198.000
Total suspended solids	297.000	237.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Electrolyte preparation wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ce of silver in produced
Lead	0.014	0.007
Mercury	0.008	0.003
Silver	0.015	0.006
Zinc	0.051	0.021
Gold	0.005	
Oil and Grease	0.500	0.500
Total suspended solids	0.750	0.600
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Calciner wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	6.160	2.860
Mercury	3.300	1.320
Silver	6.380	2.640
Zinc	22.440	9.240
Gold	2.200	
Oil and Grease	220.000	220.000
Total suspended solids	330.000	264.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Calcine quench water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	4.928	2.288
Mercury	2.640	1.056
Silver	5.104	2.112
Zinc	17.950	7.392
Gold	1.760	
Oil and Grease	176.000	176.000
Total suspended solids	264.000	211.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Calciner stack gas contract cooling water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	1.162 0.623 1.204 4.233 0.415 41.500 62.250	0.540 0.249 0.498 1.743 41.500 49.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Condenser blowdown.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of densed	ls per million mercury con-
Lead	3.864 2.070 4.002 14.080 1.380 138.000 207.000	1.794 0.828 1.656 5.796 138.000 165.600

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(i) Mercury cleaning bath water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million Mercury con-
Lead	0.392	0.182
Mercury	0.210	0.084
Silver	0.406	0.168
Zinc	1.428	0.588
Gold	0.140	
Oil and Grease	14.000	14.000
Total suspended solids	21.000	16.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38361, Sept. 20, 1985; 50 FR 41144, Oct. 9, 1985]

§ 421.255 [Reserved]

§ 421.256 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary precious metals and mercury process wastewater introduced into a POTW shall not exceed the following values:

(a) Smelter wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold and silver smelted	
Lead	0.364	0.169
Mercury	0.195	0.078
Silver	0.377	0.156
Zinc	1.326	0.546
Gold	0.130	

(b) Silver chloride reduction spent solution.

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PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of silver n solution
Lead	0.112	0.052
Mercury	0.060	0.024
Silver	0.116	0.048
Zinc	0.408	0.168
Gold	0.040	

(c) Electrolytic cells wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold refined electrolytically	
Lead	5.544 2.970 5.742 20.200 1.980	2.574 1.188 2.376 8.316
Gold	1.900	

 $\left(d\right)$ Electrolyte preparation wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver in electrolyte produced	
Lead	0.014 0.008 0.015 0.051 0.005	0.007 0.003 0.006 0.021

(e) Calciner wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million mercury con-
Lead	6.160 3.300 6.380 22.440 2.200	2.860 1.320 2.640 9.240

(f) Calcine quench water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million mercury con-
Lead Mercury Silver Zinc Gold	4.928 2.640 5.104 17.950 1.760	2.288 1.056 2.112 7.392

(g) Calciner stack gas contact cooling water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million mercury con-
Lead	1.162 0.623 1.204 4.233 0.415	0.540 0.249 0.498 1,743

(h) Condenser blowdown.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mercury con densed	
Lead	3.864 2.070 4.002 14.080 1.380	1.794 0.828 1.656 5.656

(i) Mercury cleaning bath water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury con- densed	
Lead MercurySilver	0.392 0.210 0.406	0.182 0.084 0.168

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	1.428 0.140	0.588

§421.257 [Reserved]

Subpart X—Secondary Precious Metals Subcategory

SOURCE: 50 FR 38365, Sept. 20, 1985, unless otherwise noted.

§ 421.260 Applicability: Description of the secondary precious metals subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of precious metals at secondary precious metals facilities.

§ 421.261 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) The term *precious metals* shall mean gold, platinum, palladium, rhodium, iridium, osmium, and ruthenium
- (c) The term *Combined Metals*, shall mean the total of gold, platinum and palladium.

 $[50~{\rm FR}~38365,~{\rm Sept.}~20,~1985,~{\rm as}~{\rm amended}~{\rm at}~55~{\rm FR}~31705,~{\rm Aug.}~3,~1990]$

§ 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Furnace wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of precious cluding silver, or smelted
Copper	136.400	71.800
Cyanide (total)	20.820	8.616
Zinc	104.800	43.800
Ammonia (as N)	9,571.000	4,207.000
Combined metals	21.54	
Total suspended solids	2,944.000	1,400.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Raw material granulation.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounc metal in th raw materia	ne granulated
Copper	12.050 1.839 9.256 845.100 1.902	6.340 0.761 3.867 371.500
Total suspended solids	259.900	123.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Spent plating solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ent plating so- as a raw ma-
Copper	1.900	1.000
Cyanide (total)	0.290	0.120
Zinc	1.460	0.610
Ammonia (as N)	133.300	58.600
Combined metals	0.300	
Total suspended solids	41.000	19.500
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Spent cyanide stripping solutions.

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BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce duced by ping	e of gold pro- cyanide strip-
Copper	7.030 1.073 5.402 493.200 1.110 151.700	3.700 0.444 2.257 216.800 72.150

¹ Within the range of 7.5 to 10.0 at all times.

(e) Refinery wet air pollution control. $^{2}\,$

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper Cyanide (total)	39.900 6.090 30.660 2,799.000 6.300 861.000	21.000 2.520 12.810 1,231.000 409.500

¹ Within the range of 7.5 to 10.0 at alltimes.

(f) Gold solvent extraction raffinate and wash water.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce duced by s tion	e of gold pro- olvent extrac-
Copper Cyanide (total)	1.197 0.183 0.920 83.980 0.189 25.830 (¹)	0.630 0.076 0.384 36.920 12.290 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Gold spent electrolyte.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold v electrolysis
Copper	0.017	0.009
Cyanide (total)	0.003	0.001
Zinc	0.103	0.005
Ammonia (as N)	1.160	0.510
Combined metals	0.003	
Total suspended solids	0.357	0.170
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Gold precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold itated
Copper	8.360 1.276 6.424 586.500 1.320 180.400	4.400 0.528 2.684 257.800
pH	180.400 (¹)	85.800

¹ Within the range of 7.5 to 10.0 at all times.

(i) Platinum precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of platinum pitated
Copper	9.880	5.200
Cyanide (total)	1.508	0.624
Zinc	7.592	3.172
Ammonia (as N)	693.200	304.700
Combined metals	1.560	
Total suspended solids	213.200	101.400
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Palladium precipitation and filtration.

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce precip	
Copper Cyanide (total)	11.400 1.740 8.760 799.800 1.800 246.000 (¹)	6.000 0.720 3.660 351.600 117.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Other platinum group metals precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy oun platinum o precipitated	group metals
Copper	9.880 1.508 7.592 693.200 1.560 213.200	5.200 0.624 3.172 304.700

¹ Within the range of 7.5 to 10.0 at all times.

(1) Spent solution from PGC salt production.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold PGC product
Copper Cyanide (total)	1.710 0.261 1.314 120.000 0.270 36.900 (¹)	0.900 0.108 0.549 52.740 17.550

¹ Within the range of 7.5 to 10.0 at all times.

(m) Equipment and floor wash.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounc metals, inc produced in	luding silver,
Copper Cyanide (total) Zinc Ammonia (as N) Combined metals Total suspended solids pH	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

¹ Within the range of 7.5 to 10.0 at all times.

(n) Preliminary treatment.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of total pre- als produced operation
Copper	95.000	50.000
Cyanide (Total)	14.500	6.000
Zinc	73.000	30.500
Ammonia (as N)	6665.000	2930.000
Combined Metals	15.000	
Total Suspended Solids	2050.000	975.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31705, 31706, Aug. 3, 1990]

§ 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achiev-

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Furnace wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, incinerated or smelted	
Copper	5.760 0.900 4.590 1.350	2.745 0.360 1.890
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals in the granulated raw material	
Copper	0.819 0.128 0.653 0.192 0.064 0.064 85.310	0.390 0.051 0.269

(c) Spent plating solutions.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ent plating so- as a raw ma-
Copper	1.280 0.200 1.020	0.610 0.080 0.420
Ammonia (as N)	133.300	58.600

(d) Spent cyanide stripping solutions.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by cyanide strip- ping	
Copper	4.736 0.740 3.774	2.257 0.296 1.554

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BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals Ammonia (as N)	1.110 493.200	216.800

(e) Refinery wet air pollution control $\!\!^2.$

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of preciou metals, including silve produced in refinery	
Copper	1.280 0.200 1.020 0.300 133.300	0.610 0.080 0.420 58.600

(f) Gold solvent extraction raffinate and wash water.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce duced by s tion	e of gold pro- olvent extrac-
Copper	0.806 0.126 0.643 0.189 83.980	0.384 0.050 0.265 36.920

(g) Gold spent electrolyte.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
CopperCyanide (total)	0.0111 0.0017	0.0053 0.0007
Zinc	0.0089	0.0037
Combined metals	0.0030	l

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	1.1600	0.5100

(h) Gold precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold pitated
Copper	5.632	2.684
Cyanide (total)Zinc	0.880 4.488	0.352 1.848
Combined metals	1.320	
Ammonia (as N)	586.500	257.800

(i) Platinum precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	0.560	
Ammonia (as N)	693.200	304.700

(j) Palladium precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of palladium pitated
Copper	7.680 1.200	3.660 .480
Zinc	6.120	2.520
Combined metals	1.800	
Ammonia (as N)	799.800	351.600

(k) Other platinum group metals precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ce of other group metals
Copper	6.656 1.040	3.172 0.416
Zinc Combined metals	5.304 1.560	2.184
Ammonia (as N)	693.200	304.700

(1) Spent solutions from PGC salt production.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold PGC product
Copper	1.152 0.180 0.918 0.270 120.000	0.549 0.072 0.378 52.740

(m) Equipment and floor wash.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	0.000 0.000 0.000 0.000	0.000 0.000 0.000
Ammonia (as N)	0.000	0.000

$(n)\ Preliminary\ treatment.$

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Mg/troy ounce of total pre- cious metals produced through this operation	
Copper	64.000	30.500
Cyanide (Total)	10.000	4.000
Zinc	51.000	21.000
Combined metals	15.000	
Ammonia (as N)	6665.000	2930.000

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§421.264

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31706, Aug. 3, 1990; 55 FR 36932, Sept. 7, 1990]

§ 421.264 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Furnace wet air pollution control.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of precious metals, including silver, incinerated or smelted	
5.760 0.900 4.590 1.350 599.900	2.745 0.360 1.890 263.700
67.500	54.000 (1)
	day mg/troy ounce metals, inc incinerated 5.760 0.900 4.590 1.350 599.900

¹ Within the range of 7.5 to 10.0 at all times.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals in the granulated raw material	
Copper	0.819	0.390
Cyanide (total)	0.128	0.051
Zinc	0.653	0.269
Combined metals	0.192	
Ammonia (as N)	85.310	37.500
Total suspended solids	9.600	7.680
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating so- lution used as a raw ma- terial	
Copper	1.280 0.200	0.610 0.080
Zinc	1.020	0.420
Combined metals	0.300	l

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	133.300	58.600
Total suspended solids	15.000	12.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Spent cyanide stripping solutions.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of gold pro- cyanide strip-
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.11	
Ammonia (as N)	493.200	216.800
Total suspended solids	55.500	44.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Refinery wet air pollution control 2 .

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	
Ammonia (as N)	133.300	58.600
Total suspended solids	15.000	12.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Gold solvent extraction raffinate and wash water.

⁽b) Raw material granulation.

⁽c) Spent plating solutions.

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce duced by s tion	e of gold pro- olvent extrac-
Copper Cyanide (total)	0.806 0.126	0.384
Zinc	0.120	0.030
Combined metals	0.189	
Ammonia (as N)	83.980	36.920
Total suspended solids	9.450	7.560
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Gold spent electrolyte.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ou produced by	
Copper	0.011	0.005
Cyanide (total)	0.002	0.001
Combined metals	0.003	
Zinc	0.009	0.004
Ammonia (as N)	1.160	0.510
Total suspended solids	0.131	0.104
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Gold precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold bitated
Copper	5.632	2.684
Cyanide (total)	0.880	0.352
Zinc	4.488	1.848
Combined metals	1.320	
Ammonia (as N)	586.500	257.800
Total suspended solids	66.00	52.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Platinum precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of platinum pitated
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	
Ammonia (as N)	693.200	304.700
Total suspended solids	78.000	62.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Palladium precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of palladium pitated
Copper	7.680	3.660
Cyanide (total)	1.200	0.480
Zinc	6.1200	2.520
Combined metals	1.800	
Ammonia (as N)	799.800	351.600
Total suspended solids	90.000	72.000
pH	(1)	(1)

 $^{^{\}rm 1}\,\text{Within}$ the range of 7.5 to 10.00 at all times.

(k) Other platinum group metals precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/troy ounce of other platinum group metals precipitated		
Copper	6.656	3.172	
Cyanide (total)	1.040	0.416	
Zinc	5.304	2.184	
Combined metals	1.560		
Ammonia (as N)	693.200	304.700	
Total suspended solids	78.000	62.400	
pH	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

(1) Spent solution from PGC salt production.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold PGC product
Copper	1.152 0.180 0.918 0.270	0.549 0.072 0.378
Ammonia (as N) Total suspended solidspH	120.000 13.500 (¹)	52.740 10.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Equipment and floor wash.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper Cyanide (total)	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Preliminary treatment.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of total pre- cious metals produced through this operation	
Copper	64.000 10.000 51.000 15.000 6665.000 750.000	30.500 4.000 21.000 2930.000 600.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[50~{\rm FR}~38365,~{\rm Sept.}~20,~1985,~{\rm as~amended}~{\rm at}~55~{\rm FR}~31708,~{\rm Aug.}~3,~1990]$

§ 421.265 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treat-

ment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary precious metals process wastewater introduced into a POTW must not exceed the following values:

(a) Furnace wet air pollution control.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver incinerated or smelted	
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of preciou metals in the granulate raw material	
0.819	0.390
0.128	0.051
0.653	0.269
0.192	
85.310	37.500
	mg/troy ounc metals in the raw material 0.819 0.128 0.653 0.192

(c) Spent plating solutions.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating so lution used as a raw ma- terial	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	
Ammonia (as N)	133.300	58.600

(d) Spent Cyanide stripping solutions.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by cyanide strip- ping	
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.110	
Ammonia (as N)	493.200	216.800

(e) Refinery wet air pollution control. $^{\! 1}$

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

0000111200111		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper Cyanide (total)	1.280 0.200	0.610 0.080
Zinc	1.020	0.420
Combined metals	0.300	
Ammonia (as N)	133.300	58.600

(f) Gold solvent extraction raffinate and wash water.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by solvent extrac- tion	
Copper	0.806	0.384
Cyanide (total)	0.126	0.050
Zinc	0.643	0.265
Combined metals	0.189	
Ammonia (as N)	83.980	36.920

(g) Gold spent electrolyte.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.011 0.002 0.009	0.005 0.001 0.004
Combined metals	0.003 0.003 1.160	0.510

(h) Gold precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of gold precipitated	
5.632	2.684
0.880	0.352
4.488	1.848
1.320	
586.500	257.800
	for any 1 day mg/troy ou precip 5.632 0.880 4.488 1.320

(i) Platinum precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
CopperCyanide (total)	6.656 1.040	3.172 0.416
Zinc	5.304	2.184
Combined metals	1.560	
Ammonia (as N)	693.200	304.700

(j) Palladium precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	7.680	3.660
Cyanide (total)	1.200 6.120	0.480 2.520
Combined metals	1.800	2.520
Ammonia (as N)	799.800	351.600

¹This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

(k) Other platinum group metals precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy oun platinum o precipitated	group metals
Copper	6.656 1.040 5.304 1.560 693.200	3.172 0.416 2.184 304.700

(1) Spent solution from PGC salt production.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

mg/troy ounce of gold contained in PGC product	
1.152 0.180	0.549 0.072
0.270	0.378 52.740
	1.152 0.180 0.918

(m) Equipment and floor wash.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

aximum r any 1 day	Maximum for monthly average
mg/troy ounce of preciou metals, including silver produced in refinery	
0.000 0.000 0.000 0.000	0.000 0.000 0.000
	0.000

(n) Preliminary Treatment.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Mg/troy ounce of total pre cious metals produced through this operation	
Copper	64.000 10.000	30.500 4.000

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	51.000	21.000
Combined Metals	15.000	
Ammonia (as N)	6665.000	2930.000

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31710, 31711, Aug. 3, 1990]

§ 421.266 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary precious metals process wastewater introduced into a POTW shall not exceed the following values:

(a) Furnace wet air pollution control.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounc metals, inc incinerated	luding silver,
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, in the granulated raw material	
Copper	0.819 0.128 0.653	0.390 0.051 0.269
Combined metals Ammonia	0.192 85.310	37.500

(c) Spent plating solutions.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly
- Chatant of policiant property	day	average
	mg/liter of spent plating so-	
		d as a raw
	materail	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	
Ammonia (as N)	133.300	58.600

(d) Spent cyanide stripping solutions.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by cyanide strip- ping	
Copper Cyanide (total)	4.736 0.740	2.257 0.296
Zinc	3.774	1.554
Combined metals	1.110	
Ammonia (as N)	493.200	216.800

(e) Refinery Wet Air Pollution Control. 1

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper	1.280 0.200 1.020 0.300 133.300	0.610 0.080 0.420 58,600
AIIIIIUIIIa (as IN)	133.300	58.600

(f) Gold solvent extraction raffinate and wash water.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by solvent extrac- tion	
Copper	0.806	0.384
Cyanide (total)	0.126	0.050
Zinc	0.643	0.265
Combined metals	0.189	
Ammonia (as N)	83.980	36.920

(g) Gold spent electrolyte.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.011	0.005
Cyanide (total)	0.002	0.001
Zinc	0.009	0.004
Combined metals	0.300	
Ammonia (as N)	1.160	0.510

(h) Gold precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of gold precipitated	
5.632	2.684
0.880	0.352
4.488	1.848
1.320	
586.500	257.800
	for any 1 day mg/troy ou precip 5.632 0.880 4.488 1.320

(i) Platinum precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	
Ammonia (as N)	693.200	304.700

¹This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

(j) Palladium precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	7.680 1.200 6.120 1.800 799.800	3.660 0.480 2.520 351.600

(k) Other platinum group metals precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of other platinum group metals precipitated	
Copper	6.656 1.040 5.304 1.560	3.172 0.416 2.184
Ammonia (as N)	693.200	304.700

(1) Spent solution from PGC salt production.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152 0.180 0.918 0.270 120.000	0.549 0.072 0.378 52.740

(m) Equipment and floor wash.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver, produced in refinery	
Copper	0.000 0.000	0.000 0.000

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc Combined metals Ammonia (as N)	0.000 0.000 0.000	0.000

(n) Preliminary treatment.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly averge
	mg/troy ounce of total pre cious metals produced through this operation	
Copper	64.000 10.000 51.000 15.000 6665.000	30.500 4.000 21.000 2930.000

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31711, Aug. 3, 1990]

§ 421.267 [Reserved]

Subpart Y—Primary Rare Earth Metals Subcategory

SOURCE: $50 \ \mathrm{FR}$ 38371, Sept. 20, 1985, unless otherwise noted.

§ 421.270 Applicability: Description of the primary rare earth metals subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of rare earth metals and mischmetal by primary rare earth metals facilities processing rare earth metal oxides, chlorides, and fluorides.

§421.271 Specialized definitions.

- In addition to what is provided below:
- (a) The general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) The term rare earth metals refers to the elements scandium, yttrium, and lanthanum to lutetium, inclusive.
- (c) The term *mischmetal* refers to a rare earth metal alloy comprised of the natural mixture of rare earths to about 94–99 percent. The balance of tha alloy

includes traces of other elements and one to two percent iron.

§§ 421.272-421.273 [Reserved]

§ 421.274 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Dryer Vent Water Quench and Scrubber.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.042 1.544 1.168 2.295 62.600 (¹)	0.042 0.626 0.542 1.544 50.080

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dryer vent caustic wet air pollution control.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal pro- duced from wet rare earth chlorides	
Hexachlorobenzene	0.007	0.007
Chromium (total)	0.272	0.110
Lead	0.206	0.095
Nickel	0.404	0.272
Total suspended solids	11.010	8.808
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Electrolytic cell water quench and scrubber.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		s per million otal mischmetal
Hexachlorobenzene	0.094	0.094

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total)	3.474 2.629 5.165 140.900	1.409 1.221 3.474 112.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Electrolytic cell caustic wet air pollution control.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total mischmetal produced	
Hexachlorobenzene	0.000	0.000
Chromium (total) Lead	0.000	0.000
Nickel	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Sodium hypochlorite filter backwash.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds pe pounds) of mischmetal produ	
Hexachlorobenzene	0.004 0.134 0.101 0.199 5.430	0.004 0.054 0.047 0.134 4.334
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.275 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary rare earth metals process wastewater introduced into a

POTW must not exceed the following values:

(a) Dryer vent water quench scrubber.

PSES FOR THE PRIMARY RARE EARTH METALS
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.042	0.042
Chromium (total)	1.544	0.626
Lead	1.168	0.542
Nickel	2.295	1.544

(b) Dryer vent caustic wet air pollution control.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.007	0.007
Chromium (total)	0.272	0.110
Lead	0.206	0.095
Nickel	0.404	0.272

(c) Electrolytic cell water quench and scrubber.

PSES FOR THE PRIMARY RARE EARTH METALS
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tota mischmetal produced	
Hexachlorobenzene	0.094 3.474 2.629 5.165	0.094 1.409 1.221 3.474

(d) Electrolytic cell caustic wet air pollution control.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	
Hexachlorobenzene	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Sodium hypochlorite filter backwash.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tot mischmetal produced	
Hexachlorobenzene	0.004 0.134 0.101 0.199	0.004 0.054 0.047 0.134

§ 421.276 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary rare earth metals process wastewater introduced into a POTW shall not exceed the following values:

(a) Dryer vent water quench and scrubber.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.042	0.042
Chromium (total)	1.544	0.626
Lead	1.168	0.542
Nickel	2.295	1.544

(b) Dryer vent caustic wet air pollution control.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.007 0.272 0.206 0.404	0.007 0.110 0.095 0.272

(c) Electrolytic cell water quench and scrubber.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of total produced
Hexachlorobenzene	0.094 3.474 2.629 5.165	0.094 1.409 1.221 3.474

(d) Electrolytic cell caustic wet air pollution control.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	of total
Hexachlorobenzene	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Sodium hypochlorite filter backwash.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tota mischmetal produced	
Hexachlorobenzene	0.004	0.004

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Chromium (total)	0.134	0.054
Lead	0.101	0.047
Nickel	0.199	0.134

§421.277 [Reserved]

Subpart Z—Secondary Tantalum Subcategory

SOURCE: 50 FR 38374, Sept. 20, 1985, unless otherwise noted.

§ 421.280 Applicability: Description of the secondary tantalum subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tantalum at secondary tantalum facilities.

§ 421.281 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.282 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tantalum alloy leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum pow- der produced	
Copper	438.100 96.850	230.600 46.120
Nickel	442.800	292.900
Zinc	336.700	140.700
Tantalum	103.800	

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	9,455.000 (¹)	4,497.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Capacitor leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced from leaching	
Copper	38.380	20.200
Lead	8.484	4.040
Nickel	38.780	25.650
Zinc	29.490	12.320
Tantalum	9.090	
Total suspended solids	828.200	393.900
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tantalum sludge leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of equivalent pure tantalum powded produced	
Conner	390.100	205.300
Copper		
Lead	86.230	41.060
Nickel	394.200	260.700
Zinc	299.700	125.200
Tantalum	92.390	
Total suspended solids	8,417.000	4,003.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tantalum powder acid wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced	
Copper	0.665 0.147	0.350 0.070
Nickel	0.672	0.445

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	0.511	0.214
Tantalum	0.158	
Total suspended solids	14.350	6.825
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of equivalent pure tantalum powder produced	
Copper	9.272	4.880
Lead	2.050	0.976
Nickel	9.370	6.198
Zinc	7.125	2.977
Tantalum	2.196	
Total suspended solids	200.100	95.160
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tantalum alloy leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced	
Copper	295.200 64.570	140.700 29.980
NickelZinc	126.800 235.200	85.320 96.850
Tantalum	103.800	

(b) Capacitor leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced from leaching	
Copper	25.860	12.320
Lead	5.656	2.626
Nickel	11.110	7.474
Zinc	20.600	8.484
Tantalum	9.090	

(c) Tantalum sludge leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of equivalen pure tantalum powde produced	
Copper	262.800 57.480	125.200 26.690
Nickel	112.900	75.960
Zinc	209.400	86.230
Tantalum	92.390	

(d) Tantalum powder acid wash and rinse.

BAT LIMITATIONS FOR THE SECONDARY
TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced	
Copper	0.448 0.098 0.193 0.357 0.158	0.214 0.046 0.130 0.147

(e) Leaching wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of equivaler pure tantalum powde produced	
Copper	6.246 1.366 2.684 4.978 2.196	2.977 0.634 1.806 2.050

§ 421.284 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tantalum alloy leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced	
Copper	295.200	140.700
Lead	64.570	29.980
Nickel	126.800	85.320
Zinc	235.200	96.850
Tantalum	103.800	
Total suspended solids	3,459.000	2,767.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Capacitor leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced from leaching	
Copper	25.860	12.320
Lead	5.656	2.626
Nickel	11.110	7.474
Zinc	20.600	8.484
Tantalum	9.090	
Total suspended solids	303.000	242.400
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tantalum sludge leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million of equivalent alum powder
Copper	262.800	125.200
Lead	57.480	26.690
Nickel	112.900	75.960
Zinc	209.400	86.230
Tantalum	92.390	
Total suspended solids	3,080.000	2,464.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tantalum powder acid wash and

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced	
CoppereadVickelZinc	0.448 0.098 0.193 0.357	0.214 0.046 0.130 0.147
Fotal suspended solids	0.158 5.250	4.200 (1)
oH	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

(e) Leaching wet air pollution control.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of equivalent pure tantalum powder produced	
Copper	6.246	2.977
Lead	1.366	0.634
Nickel	2.684	1.806
Zinc	4.978	2.050
Tantalum	2.196	
Total suspended solids	73.200	58.560
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.285 [Reserved]

§ 421.286 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Tantalum alloy leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced	
Copper Lead	295.200 64.570 126.800 235.200 103.800	140.700 29.980 85.320 96.850

(b) Capacitor leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced fror leaching	
CopperLeadNickel	25.860 5.656 11.110	12.320 2.626 7.474
Zinc Tantalum	20.600 9.090	8.484

(c) Tantalum sludge leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of equivalent alum powder
opperead	262.800 57.480	125.200 26.690

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	112.900	75.960
Zinc	209.400	86.230
Tantalum	92.390	

(d) Tantalum powder acid wash and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced	
Copper	0.448 0.098 0.193 0.357 0.158	0.214 0.046 0.130 0.147

(e) Leaching wet air pollution control.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of equivalen pure tantalum powde produced	
Copper	6.246 1.366 2.684 4.978 2.196	2.977 0.634 1.806 2.050
rantalum	2.196	

§ 421.287 [Reserved]

Subpart AA—Secondary Tin Subcategory

SOURCE: 50 FR 38376, Sept. 20, 1985, unless otherwise noted.

§ 421.290 Applicability: Description of the secondary tin subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tin at secondary tin facilities utilizing either pyrometallurgical or

hydrometallurgical processes to recover tin from secondary materials.

§ 421.291 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.292 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tin smelter SO₂ scrubber.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of crude tappe tin metal produced	
Arsenic	19.220	8.554
Lead	3.863	1.840
Iron	11.040	5.611
Tin	3.495	2.024
Total suspended solids	377.100	179.400
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dealuminizing rinse.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dealuminized scrap produced	
Lead Cyanide (total)	0.015 0.010	0.007 0.004
Fluoride	1.225	0.700
Tin	0.013	0.008
Total suspended solids	1.435	0.683
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(c\right)$ Tin mud acid neutralization filtrate.

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BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of neutralized dewatered tin mud pro- duced	
Lead	2.120	1.009
Cyanide (total)	1.464	0.606
Fluoride	176.600	100.400
Tin	1.918	1.110
Total suspended solids	206.900	98.420
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tin hydroxide wash.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin hydroxide washed	
Lead	5.020	2.391
Cyanide (total)	3.466	1.434
Fluoride	418.400	237.900
Tin	4.542	2.630
Total suspended solids	490.100	233.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Spent electrowinning solution from new scrap.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode tin produced	
Lead	7.056	3.360
Cyanide (total)	4.872	2.016
Fluoride	588.000	334.300
Tin	6.384	3.696
Total suspended solids	688.800	327.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Spent electrowinning solution from municipal solid waste.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of MSW scrap used as raw material	
Lead	0.050	0.024
Cyanide (total)	0.035	0.014
Fluoride	4.165	2.368
Tin	0.045	0.026
Total suspended solids	4.879	2.321
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Tin hydroxide supernatant from scrap.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tin metal re covered from scrap	
Lead	23.370 16.140 1,947.000 21.140 2,281.000	11.130 6.677 1,107.000 12.240 1,085.000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Tin hydroxide supernatant from plating solutions and sludges.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re covered from plating so lutions and sludges	
Lead	48.30	23.00
Cyanide (total)	33.35	13.80
Fluoride	4,025.00	2,289.00
Tin	43.70	25.30
Total suspended solids	4,715.00	2,243.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽i) Tin hydroxide filtrate.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal pro duced	
Lead	10.520	5.009
Cyanide (total)	7.263	3.005
Fluoride	876.500	498.400
Tin	9.517	5.510
Total suspended solids	1,027.000	488.400
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.293 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tin smelter SO₂ scrubber.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

CODOMIZACINI		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of crude tapped tin produced	
Arsenic	12.790 2.575 11.040 3.495	5.703 1.196 5.611 2.024

(b) Dealuminizing rinse.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dealuminized scrap produced	
Lead	0.010 0.007 1.225 0.013	0.005 0.003 0.697 0.008

(c) Tin mud acid neutralization filtrate.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of neutralized dewatered tin mud pro- duced	
Lead	1.413 1.009 176.600 1.918	0.656 0.404 100.400 1.110

(d) Tin hydroxide wash.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of washed	ds per million tin hydroxide
Lead	3.347 2.391 418.400 4.542	1.554 0.956 237.900 2.630

(e) Spent electrowinning solution from new scrap.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cathode to produced	
Lead	4.704 3.360 588.000 6.384	2.184 1.344 334.300 3.696

 $\begin{array}{ccc} (f) & Spent & electrowinning & solution \\ from & municipal & solid & waste. \end{array}$

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of MSW scrap used as raw material	
Lead Cyanide (total)	0.033 0.024	0.015 0.010

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BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	4.165 0.045	2.368 0.026

(g) Tin hydroxide supernatant from scrap.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from scrap	
Lead	15.580 11.130 1,947.000 21.140	7.233 4.451 1,107.000 21.240

(h) Tin hydroxide supernatant from plating solutions and sludges.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from plating so- lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

(i) Tin hydroxide filtrate.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal pro- duced	
Lead	7.012 5.009 876.500 9.517	3.256 2.004 498.400 5.510

§ 421.294 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tin smelter SO₂ scrubber.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of crude tapped tin produced	
Arsenic	12.790 2.575	5.703 1.196
Iron	11.040	5.611
Tin	3.495	2.024
Total suspended solids	138.000	110.400
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dealuminizing rinse.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of dealuminized scrap produced	
Lead Cyanide (total) Fluoride	0.010 0.007 1.225	0.005 0.003 0.697
Tin	0.013	0.008
Total suspended solids	0.525	0.420
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tin mud acid neutralization filtrate.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million f neutralized tin mud pro-
Lead	1.413	0.656
Cyanide (total)	1.009	0.404
Fluoride	176.600	100.400
Tin	1.918	1.110
Total suspended solids	75.710	60.560
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tin hydroxide wash.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin hydroxide washed	
Lead	3.347	1.554
Cyanide (total)	2.391	0.956
Fluoride	418.400	237.900
Tin	4.542	2.630
Total suspended solids	179.300	143.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Spent electrowinning solution from new scrap.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cathode tin
Lead	4.704	2.184
Cyanide (total)	3.360	1.344
Fluoride	588.000	334.300
Tin	6.384	3.696
Total suspended solids	252.000	201.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Spent electrowinning solution from municipal solid waste.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of MSW scrap used as raw material	
Lead	0.033 0.024 4.165 0.045 1.785	0.015 0.010 2.368 0.026 1.428
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(g\right)$ Tin hydroxide supernatant from scrap.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from scrap	
Lead Cyanide (total)	15.580 11.130	7.233 4.451

NSPS FOR THE SECONDARY TIN SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	1,947.000	1,107.000
Tin	21.140	12.240
Total suspended solids	834.600	667.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Tin hydroxide supernatant from plating solutions and sludges.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re covered from plating so lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70 1,725.00 (¹)	14.95 9.20 2,289.00 25.30 1,380.00 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Tin hydroxide filtrate.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million tin metal pro-
Lead	7.012 5.009 876.500 9.517 375.700	3.256 2.004 498.400 5.510 300.500

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.295 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary tin process wastewater introduced into a POTW must not exceed the following values:

(a) Tin smelter SO₂ scrubber.

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PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million crude tapped d
ArsenicLeadIron	12.790 2.575 11.040	5.703 1.196 5.611
Tin	3.495	2.024

(b) Dealuminizing rinse.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dealuminized scrap produced	
Lead	0.010 0.007 1.225 0.013	0.005 0.003 0.697 0.008

 $\left(c\right)$ Tin mud acid neutralization filtrate.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of neutralized dewatered tin mud pro- duced	
Lead	1.413	0.656
Cyanide (total)	1.009	0.404
Fluoride	176.600	100.400
<u>Tin</u>	1.918	1.110

(d) Tin hydroxide wash.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million tin hydroxide
3.347	1.554
2.391	0.956
418.400	237.900
4.542	2.630
	for any 1 day mg/kg (pound pounds) of washed 3.347 2.391 418.400

(e) Spent electrowinning solution from new scrap.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million cathode tin
4.704 3.360 588.000 6.384	2.184 1.344 334.300 3.696
	mg/kg (pound pounds) of produced 4.704 3.360 588.000

(f) Spent electrowinning solution from municipal solid waste.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million MSW scrap v material
Lead	0.033 0.024 4.165 0.045	0.015 0.010 2.368 0.026

 $\left(g\right)$ Tin hydroxide supernatant from scrap.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tin metal re- m scrap
Lead Cyanide (total)	15.580 11.130	7.233 4.451
Fluoride Tin	1,947.000 21.140	1,107.000 12.240

(h) Tin hydroxide supernatant from plating solutions and sludges.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re covered from plating so lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

(i) Tin hydroxide filtrate.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tin metal pro-
Lead	7.012	3.256
Cyanide (total)	5.009	2.004
Fluoride	876.500	498.400
Tin	9.517	5.510

§ 421.296 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tin process wastewater introduced into a POTW shall not exceed the following values:

(a) Tin smelter SO_2 scrubber.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million crude tapped d
Arsenic	12.790	5.703
Lead	2.575	1.196
Iron	11.040	5.611
Tin	3.495	2.024

(b) Dealuminizing rinse.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million dealuminized uced
Lead Cyanide (total)	0.010 0.007	0.005
Fluoride	1.225 0.013	0.697 0.008

(c) Tin mud acid neutralization filtrate.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	of pounds)	ds per million of neutralized tin mud pro-
Lead Cyanide (total)	1.413 1.009	0.656 0.404
Fluoride	176.600	100.400
Tin	1.918	1.110

(d) Tin hydroxide wash.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tin hydroxide
Lead	3.347 2.391 418.400 4.542	1.554 0.956 237.900 2.630

(e) Spent electrowinning solution from new scrap.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million cathode tin
Lead	4.704 3.360 588.000 6.384	2.184 1.344 334.300 3.696

(f) Spent electrowinning solution from municipal solid waste.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million MSW scrap v material
Lead	0.033 0.024 4.165 0.045	0.015 0.010 2.368 0.026

(g) Tin hydroxide supernatant from scrap.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from scrap	
Lead	15.580 11.130 1,947.000 21.140	7.233 4.451 1,107.000 12.240

(h) Tin hydroxide supernatant from plating solutions and ludges.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from plating so- lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

(i) Tin hydroxide filtrate.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal pro- duced	
Lead	7.012 5.009 876.500 9.517	3.256 2.004 498.400 5.510

§421.297 [Reserved]

Subpart AB—Primary and Secondary Titanium Subcategory

SOURCE: 50 FR 38380, Sept. 20, 1985, unless otherwise noted.

§ 421.300 Applicability: Description of the primary and secondary titanium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of titanium at primary and secondary titanium facilities. Facilities which only practice vacuum distillation for sponge purification and which do not practice electrolytic re-

covery of magnesium are exempt from regulations. All other primary and secondary titanium facilities are covered by these regulations.

§421.301 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Chlorination off-gas wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million iCl ₄ produced
Chromium (total) Lead	0.412 0.393 1.797 0.880 18.720 38.380 (¹)	0.168 0.187 1.189 0.384 11.230 18.250 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorination area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.412	0.168
Chromium (total)	0.458	0.187
Lead	0.437	0.208
Nickel	1.997	1.321
Titanium	0.978	0.426
Oil and grease	20.800	12.480
Total suspended solids	42 640	20 280

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) $TiCl_4$ handling wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million TiCl ₄ handled
Chromium (total) Lead	0.082 0.079 0.359 0.176 3.740 7.667 (¹)	0.034 0.037 0.237 0.077 2.244 3.647

¹ Within the range of 7.5 to 10.0 at all times.

(d) Reduction area wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro- duced	
Chromium (total)	18.170	7.435
Chromium (total)		
Lead	17.350	8.261
Nickel	79.300	52.450
Titanium	38.820	16.930
Oil and grease	826.100	495.600
Total suspended solids	1,693.000	805.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Melt cell wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	9.352 8.927 40.810	3.826 4.251 26.990
Titanium	19.980	8.714

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Oil and grease	425.100 871.400 (¹)	255.000 414.500 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Chlorine liquefaction wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	130.900 125.000 571.300 279.700 5,951.000 12,200.000	53.560 59.510 377.900 122.000 3,571.000 5,702.000

¹ Within the range of 7.5 to 10.0 at all times.

(g) Sodium reduction container reconditioning wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total) Lead Nickel Titanium Oil and grease Total suspended solids pH	0.564 0.538 2.461 1.205 25.640 52.560 (¹)	0.231 0.256 1.628 0.526 15.380 25.000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Chip crushing wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of titanium pro duced	
Chromium (total)	10.090	4.126

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BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead Nickel	9.627 44.010	4.584 29.110
Titanium	21.550	9.398
Oil and grease	458.400	275.100
Total suspended solids	939.800	447.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Acid leachate and rinse water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	5.210 4.973 22.730 11.130 236.800 485.400 (1)	2.131 2.368 15.040 4.854 142.100 230.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Sponge crushing and screening wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of titanium pro- duced	
2.847 2.717 12.420 6.082 129.400 265.300	1.165 1.294 8.217 2.653 77.640 126.200
	for any 1 day mg/kg (pound pounds) of duced 2.847 2.717 12.420 6.082 129.400 265.300

¹ Within the range of 7.5 to 10.0 at all times.

(k) Acid pickle and wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pickled	
Chromium (total)	0.027 0.026	0.011 0.012

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	0.117	0.077
Titanium	0.057	0.025
Oil and grease	1.220	0.732
Total suspended solids	2.501	1.190
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(1) Scrap milling wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.995 0.950	0.407 0.452
Nickel	4.341	2.871
Titanium	2.125	0.927
Oil and grease	45.220	27.130
Total suspended solids	92.700	44.090
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Scrap detergent wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of s	ds per million crap washed
Chromium (total) Lead	7.948 7.587 34.680 16.980 361.300 740.600 (¹)	3.252 3.613 22.940 7.406 216.800 352.300 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Casting crucible wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.210 0.200 0.916 0.448 9.540	0.086 0.095 0.606 0.196 5.724

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	19.560 (¹)	9.302 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Casting contact cooling water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million itanium cast
Chromium (total)	321.100 306.500 1,401.000 685.900 14,590.000 29,920.000	131.400 145.900 926.800 299.200 8,757.000 14,230.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.303 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Chlorination off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346	0.140
Lead	0.262	0.122
Nickel	0.515	0.346
Titanium	0.496	0.215

(b) Chlorination area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of Ti	ds per million iCl ₄ produced
Chromium (total)	0.385 0.291 0.572 0.551	0.156 0.135 0.385 0.239

(c) $TiCl_4$ handling wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of T	
Chromium (total) Lead Nickel Titanium	0.069 0.052 0.103 0.099	0.028 0.024 0.069 0.043

(d) Reduction area wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro duced	
Chromium (total)	1.528 1.156 2.272 2.189	0.620 0.537 1.528 0.950

(e) Melt cell wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.787 0.595 1.169 1.127	0.319 0.276 0.787 0.489

(f) Chlorine liquefaction wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	11.010	4.463
Lead	8.332	3.868
Nickel	16.370	11.010
Titanium	15.770	6.844

 $\left(g\right)$ Sodium reduction container reconditioning wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	0.474 0.359 0.705 0.679	0.192 0.167 0.474 0.295

(h) Chip crushing wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro- duced	
Chromium (total)	0.848 0.642 1.261 1.215	0.344 0.298 0.848 0.527

(i) Acid leachate and rinse water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	4.381 3.315 6.512 6.275	1.776 1.539 4.381 2.723

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(j) Sponge crushing and screening wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.239 0.181 0.356 0.343	0.097 0.084 0.239 0.149

(k) Acid pickle and wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pickled	
Chromium (total) Lead Nickel Titanium	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014

(1) Scrap milling wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.084 0.064 0.125 0.120	0.034 0.030 0.084 0.052

(m) Scrap detergent wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684 5.058 9.935 9.574	2.710 2.348 6.684 4.155

(n) Casting crucible wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176	0.072
Lead	0.134	0.062
Nickel	0.262	0.176
Titanium	0.253	0.110

(o) Casting contact cooling water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000 20.430	10.950 9.486
Nickel	40.140	27.000
Titanium	38.68	16.78

§ 421.304 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Chlorination off-gas wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346	0.140
Lead	0.262	0.122
Nickel	0.515	0.346
Titanium	0.496	0.215
Oil and grease	9.360	9.360
Total suspended solids	14.040	11.230
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorination area-vent wet air pollution control. $\,$

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385 0.291	0.156 0.135
Nickel	0.572 0.551	0.385 0.239
Oil and grease Total suspended solids pH	10.400 15.600	10.400 12.480

¹ Within the range of 7.0 to 10.0 at all times.

(c) ${\rm TiCl_4}$ handling wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million FiCl ₄ handled
Chromium (total) Lead	0.069 0.052 0.103 0.099 1.870 2.805	0.028 0.024 0.069 0.043 1.870
Total suspended solidspH	2.805	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Reduction area wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total)	1.528 1.156 2.272 2.189 41.300 61.950	0.620 0.537 1.528 0.950 41.300 49.560
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Melt cell wet air pollution control.

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NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total)	0.787 0.595 1.169 1.127	0.319 0.276 0.787 0.489
Oil and grease	21.260	21.260
Total suspended solids	31.890	25.510
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Chlorine liquefaction wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average		
mg/kg (pound per million pounds) of titanium pro- duced			
0.000 0.000 0.000	0.000 0.000 0.000		
0.000	0.000		
0.000	0.000 (¹)		
	for any 1 day mg/kg (poun pounds) of duced 0.000 0.000 0.000 0.000 0.000 0.000 0.000		

¹ Within the range of 7.5 to 10.0 at all times.

(g) Sodium reduction container reconditioning wash.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	d per million titanium pro-
Chromium (total)	0.474 0.359 0.705 0.679 12.820 19.230	0.192 0.167 0.474 0.295 12.820 15.380
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Chip crushing wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million titanium pro-
Chromium (total)	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Acid leachate and rinse water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	d per million titanium pro-
Chromium (total)	4.381	1.776
Lead	3.315	1.539
Nickel	6.512	4.381
Titanium	6.275	2.723
Oil and grease	118.400	118.400
Total suspended solids	177.600	142.100
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Sponge crushing and screening wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Acid pickle and wash water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million anium pickled
Chromium (total)	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014
Oil and grease Total suspended solids pH	0.610 0.915 (¹)	0.610 0.732 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(1) Scrap milling wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(m\right)$ Scrap detergent wash water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684	2.710
Lead	5.058	2.348
Nickel	9.935	6.684
Titanium	9.574	4.155
Oil and grease	180.600	180.600
Total suspended solids	271.000	216.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Casting crucible wash water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million itanium cast
Chromium (total)	0.176 0.134 0.262 0.253 4.770 7.155 (¹)	0.072 0.062 0.176 0.110 4.770 5.724 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Casting contact cooling water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total) Lead	27.000 20.430 40.140 38.680 729.700 1,095.000 (¹)	10.950 9.486 27.000 16.780 729.700 875.700

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.305 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW must not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total) Lead Nickel	0.346 0.262 0.515	0.140 0.122 0.346

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Titanium	0.496	0.215

(b) Chlorination Area-vent wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385	0.156
Lead	0.291	0.135
Nickel	0.572	0.385
Titanium	0.551	0.239

(c) $TiCl_4$ handling wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069	0.028
Lead	0.052	0.024
Nickel	0.103	0.069
Titanium	0.099	0.043

(d) Reduction area wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of titanium pro duced	
Chromium (total)	1.528	0.620
Lead	1.156	0.537
Nickel	2.272	1.528
Titanium	2.189	0.950

(e) Melt cell wet air pollution control.

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PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	0.787 0.595 1.169 1.127	0.319 0.276 0.787 0.489

(f) Chlorine liquefaction wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million titanium pro-
11.010 8.332 16.370 15.770	4.463 3.868 11.010 6.844
	for any 1 day mg/kg (pound pounds) of duced 11.010 8.332 16.370

 $\left(g\right)$ Sodium reduction container reconditioning wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total)	0.474 0.359 0.705 0.679	0.192 0.167 0.474 0.295

(h) Chip crushing wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	0.848 0.642 1.261 1.215	0.344 0.298 0.848 0.527

(i) Acid leachate and rinse water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)LeadNickelTitanium	4.381 3.315 6.512 6.275	1.776 1.539 4.381 2.723

 $\left(j\right)$ Sponge crushing and screening wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)LeadNickelTitanium	0.239 0.181 0.356 0.343	0.097 0.084 0.239 0.149

(k) Acid pickle and wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pickled	
Chromium (total)	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014

(1) Scrap milling wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.084 0.064 0.125 0.120	0.034 0.030 0.084 0.052

(m) Scrap detergent wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684	2.710
Lead	5.058	2.348
Nickel	9.935	6.684
Titanium	9.574	4.155

(n) Casting crucible wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176	0.072
Lead	0.134	0.062
Nickel	0.262	0.176
Titanium	0.253	0.110

(o) Casting contact cooling water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.680	16.780

§ 421.306 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW shall not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346 0.262 0.515 0.496	0.140 0.122 0.346 0.215

(b) Chlorination area-vent wet air pollution control. $\ensuremath{\text{a}}$

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385 0.291 0.572 0.551	0.156 0.135 0.385 0.239

(c) $TiCl_4$ handling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069 0.052 0.103 0.099	0.028 0.024 0.069 0.043

(d) Reduction area wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	1.528 1.156 2.272 2.189	0.620 0.537 1.528 0.950

(e) Melt cell wet air pollution control.

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PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.787 0.595 1.169 1.127	0.319 0.276 0.787 0.489

(f) Chlorine liquefaction wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

 $\left(g\right)$ Sodium reduction container reconditioning wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.474 0.359 0.705 0.679	0.192 0.167 0.474 0.295

(h) Chip crushing wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(i) Acid leachate and rinse water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	4.381 3.315 6.512 6.275	1.776 1.539 4.381 2.723

 $\left(j\right)$ Sponge crushing and screening wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(k) Acid pickle and wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million anium pickled
Chromium (total)	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014

(1) Scrap milling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(m) Scrap detergent wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684	2.710
Lead	5.058	2.348
Nickel	9.935	6.684
Titanium	9.574	4.155

(n) Casting crucible wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176 0.134 0.262 0.253	0.072 0.062 0.176 0.110

(o) Casting contact cooling water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000 20.430	10.950 9.486
Nickel	40.140	27.000
Titanium	38.680	16.780

§421.307 [Reserved]

Subpart AC—Secondary Tungsten and Cobalt Subcategory

Source: 50 FR 38386, Sept. 20, 1985, unless otherwise noted.

§421.310 Applicability: Description of the secondary tungsten and cobalt subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tungsten or cobalt at secondary tungsten and cobalt facilities processing tungsten or tungsten carbide scrap raw materials.

§ 421.311 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tungsten detergent wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten ed
Copper	0.371 0.374 25.990 0.768 1.357	0.195 0.248 11.430 0.337 0.542
Oil and grease	3.900 7.995 (¹)	2.340 3.803 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper	4.885 4.937 342.700	2.571 3.265 150.700
Cobalt	10.130 17.890 51.420	4.448 7.147 30.850
Total suspended solidspH	105.400 (¹)	50.140 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tungsten post-leaching wash and rinse.

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BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million tungsten pro-
Copper	9.772	5.143
Nickel	9.875	6.532
Ammonia (as N)	685.600	301.400
Cobalt	20.263	8.897
Tungsten	35.800	14.300
Oil and grease	102.900	61.720
Total suspended solids	210.900	100.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Synthetic scheelite filtrate.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of synthetic roduced
Copper Nickel Ammonia (as N) Cobalt	31.660 31.990 2,221.000 65.644	16.660 21.160 976.300 28.824
Tungsten	116.000 333.200	46.320 200.000
Total suspended solidspH	683.100 (¹)	324.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Tungsten carbide leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten car- leached
Copper	3.327	1.751
Nickel	3.362	2.224
Ammonia (as N)	233.400	102.600
Cobalt	6.899	3.029
Tungsten	12.190	4.868
Oil and grease	35.020	21.010
Total suspended solids	71.790	34.150
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Tungsten carbide wash water.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of bide produc	tungsten car-
Copper	15.830	8.333
Nickel	16.000	10.580
Ammonia (as N)	1,111.000	488.300
Cobalt	32.832	14.416
Tungsten	58.000	23.170
Oil and grease	166.700	100.000
Total suspended solids	341.700	162.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Cobalt sludge leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million f cobalt pro- cobalt sludge
Conner	67,000	05 700
Copper	67.990	35.780
Nickel	68.700	45.440
Ammonia (as N)	4,770.000	2,097.000
Cobalt	140.977	61.901
Tungsten	249.000	99.470
Oil and grease	715.600	429.400
Total suspended solids	1,467.000	697.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Crystallization decant.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	79.140 79.970 5,552.000 164.101 289.900 833.000 1,708.000	41.650 52.900 2,441.000 72.055 115.800 499.800 812.200
pH	(1)	(1)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	36.220 36.600 2,541.000 75.104 132.700 381.300 781.600 (1)	19.060 24.210 1,117.000 32.977 52.990 228.800 371.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Cobalt hydroxide filtrate.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
Copper	107.600	56.650
Nickel	108.800	71.940
Ammonia (as N)	7,551.000	3.320.000
Cobalt	223.189	97.999
Tungsten	394.300	157.500
Oil and grease	1.133.000	679.800
Total suspended solids	2,323.000	1,105.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Cobalt hydroxide filter cake wash.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	207.200	109.100
Nickel	209.400	138.500
Ammonia (as N)	14,530.000	6,389.000
Cobalt	429.598	188.631
Tungsten	758.900	303.100
Oil and grease	2,181.000	1,309.000
Total suspended solids	4,471.000	2,126.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31713, 31714, Aug. 3, 1990]

⁽i) Acid wash decant.

§ 421.313 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tungsten detergent wash and rinse.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten ed
Copper	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro duced	
Copper	3.291 1.414 342.700 7.096 8.947	1.569 0.951 150.700 3.111 3.985

(c) Tungsten post-leaching wash and rinse.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten pro- duced	
Copper	6.583 2.829 685.600	3.137 1.903 301.400

BAT LIMITATIONS FOR THE SECONDARY TUNG-STEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt	14.194 17.900	6.223 7.972

(d) Synthetic scheelite filtrate.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of synthetic scheelite produced	
Copper	21.330	10.170
Nickel	9.164	6.165
Ammonia (as N)	2,221.000	976.300
Cobalt	45.984	20.160
Tungsten	57.980	25.820

(e) Tungsten carbide leaching wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car- bide scrap leached	
Copper	2.241	1.068
Nickel	0.963	0.648
Ammonia (as N)	233.400	102.600
Cobalt	4.833	2.119
Tungsten	6.093	2.714

(f) Tungsten carbide wash water.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of tungsten car bide produced	
10.670 4.583 1,111.000 22.999 29.000	5.083 3.083 488.300 10.083 12.920
	mg/kg (pound pounds) of bide product 10.670 4.583 1,111.000 22.999

(g) Cobalt sludge leaching wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt pro- duced from cobalt sludge	
Copper	45.80 19.68 4,770.00 98.756 124.50	21.83 13.24 2,097.00 43.295 55.46

(h) Crystallization decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	53,310 22.910	25.410 15.410
Ammonia (as N)	5,552.000 114.954 144.900	2,441.000 50.397 64.560
. 3		

(i) Acid wash decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	24.400 10.490 2,541.000 52.611 66.340	11.630 7.053 1,117.000 23.065 29.550

(j) Cobalt hydroxide filtrate.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	72.510 31.160 7,551.000 156.346	34.560 20.960 3,320.000 68.543
Tungsten	197.100	87.800

(k) Cobalt hydroxide filter cake wash.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	139.600	66.510
Nickel	59.970	40.340
Ammonia (as N)	14,530.000	6,389.000
Cobalt	300.094	131.932
Tungsten	379.400	169.000

 $[50~\mathrm{FR}$ 38386, Sept. 20, 1985, as amended at 55 FR 31714, 31715, Aug. 3, 1990]

§ 421.314 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tungsten detergent wash and

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten scrap washed	
Copper	0.250 0.107 25.990 0.538 0.679 1.950 2.925	0.119 0.072 11.430 0.236 0.302 1.950 2.340

¹ Within the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper Nickel Ammonia (as N) Cobalt Tungsten Oil and grease Total suspended solids pH	3.291 1.414 342.700 7.096 8.947 25.710 38.570 (¹)	1.569 0.951 150.700 3.111 3.985 25.710 30.850 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tungsten post-leaching wash and rinse.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro- duced	
Copper	6.583 2.829 685.600 17.900 14.194 51.430 77.150 (1)	3.137 1.903 301.400 7.972 6.223 51.430 61.720 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Synthetic scheelite filtrate.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of synthetic scheelite produced	
Copper	21.330 9.164 2,221.000 45.984 57.980 166.600 249.900 (¹)	10.170 6.165 976.300 20.160 25.820 166.600 199.900 (¹)

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(e) Tungsten carbide leaching wet air pollution control.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car bide scrap leached	
Copper	2.241 0.963 233.400 4.833 6.093 17.510 26.270	1.068 0.648 102.600 2.119 2.714 17.510 21.010

¹ Within the range of 7.5 to 10.0 at all times.

(f) Tungsten carbide wash water.

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NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car- bide produced	
Copper	10.670	5.083
Nickel	4.583	3.083
Ammonia (as N)	1,111.000	488.300
Cobalt	22.999	10.083
Tungsten	29.000	12.920
Oil and grease	83.330	83.330
Total suspended solids	125.000	100.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Cobalt sludge leaching wet air pollution control.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f cobalt pro- cobalt sludge
Copper	45.80 19.68	21.83
Nickel Ammonia (as N)	4.770.00	13.24 2,097.00
Cobalt	98.756	43.295
Tungsten	124.50	55.46
Oil and grease	357.80	357.80
Total suspended solids	536.70	429.40
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Crystallization decant.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	53.310	25.410
Nickel	22.910	15.410
Ammonia (as N)	5,552.000	2,441.000
Cobalt	114.954	50.397
Tungsten	144.900	64.560
Oil and grease	416.500	416.500
Total suspended solids	624.800	499.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Acid wash decant.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	24.400	11.630
Nickel	10.490	7.053
Ammonia (as N)	2,541.000	1,117.000
Cobalt	52.611	23.065
Tungsten	66.340	29.550
Oil and grease	190.600	190.600
Total suspended solids	285.900	228.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Cobalt hydroxide filtrate.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	72.510 31.160 7,551.000 156.346 197.100 566.500 849.700 (¹)	34.560 20.960 3,320.000 68.543 87.800 566.500 679.800 (¹)

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(k) Cobalt hydroxide filter cake wash.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	139.600	66.510
Nickel	59.970	40.340
Ammonia (as N)	14,530.000	6,389.000
Cobalt	300.094	131.932
Tungsten	379.400	169.000
Oil and grease	1,090.000	1,090.000
Total suspended solids	1,636,000	1,308.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31715, 31716, Aug. 3, 1990]

§ 421.315 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7, any existing source subject to this sub-

part which introduces polutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary tungsten and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Tungsten detergent wash and inse.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten scrap washed	
Copper	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro- duced	
Copper	3.291 1.414	1.569 0.951
Ammonia (as N)	342.700	150.700
Cobalt	7.096	3.111
Tungsten	8.947	3.985

(c) Tungsten post-leaching wash and rinse.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper	6.583 2.829 685.600 14.194 17.900	3.137 1.903 301.400 6.223 7.972

(d) Synthetic scheelite filtrate.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of syntheti scheelite produced	
Copper	21.330 9.164 2,221.000 45.984 57.980	10.170 6.165 976.300 20.160 25.820

(e) Tungsten carbide leaching wet air pollution control.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten car-
Copper	2.241 0.963 233.400 4.833 6.093	1.068 0.648 102.600 2.119 2.714

(f) Tungsten carbide wash water.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly
	uay	average
n	mg/kg (pounds per millio pounds) of tungsten ca bide produced	
Copper	10.670 4.583	5.083 3.083
Ammonia (as N)	1,111.000	488.300
Cobalt	22.999	10.083
Tungsten	29.000	12.920

(g) Cobalt sludge leaching wet air pollution control.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million f cobalt pro- cobalt sludge
Copper	45.800 19.680 4,770.000	21.830 13.240 2,097.000

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PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt	98.756 124.500	43.295 55.460

(h) Crystallization decant.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	53.310	25.410
Nickel	22.910	15.410
Ammonia (as N)	5,552.000	2,441.000
Cobalt	114.954	50.397
Tungsten	144.9	64.56

(i) Acid wash decant.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	24.400	11.630
Nickel	10.490	7.053
Ammonia (as N)	2,541.000	1,117.000
Cobalt	52.611	23.065
Tungsten	66.34	29.55

(j) Cobalt hydroxide filtrate.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Nickel 31.160 20.960 Ammonia (as N) 7,551.000 3,320.000			
Copper 72.510 34.560 Nickel 31.160 20.960 Ammonia (as N) 7,551.000 3,320.000 Cobalt 156.346 68.543	Pollutant or pollutant property		monthly aver-
Nickel 31.160 20.960 Ammonia (as N) 7,551.000 3,320.000 Cobalt 156.346 68.543			
Ammonia (as N) 7,551.000 3,320.000 Cobalt 156.346 68.543			34.560
			3,320.000
Tungsten 197.1 87.8	Cobalt	156.346	68.543
	Tungsten	197.1	87.8

(k) Cobalt hydroxide filter cake wash.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	139.600 59.970 14,530.000 300.094 379.400	66.510 40.340 6,389.000 131.932 169.000

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31717, 31718, Aug. 3, 1990]

§ 421.316 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tungsten and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Tungsten detergent wash and rinse.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste scrap washed	
Copper	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungsten pro duced	
Copper	3.291 1.414 342.700 7.096	1.569 0.951 150.700 3.111

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Tungsten	8.947	3.985

(c) Tungsten post-leaching wash and rinse.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million tungsten pro-
Copper	6.583 2.829 685.600 14.194 17.900	3.137 1.903 301.400 6.223 7.792

(d) Synthetic scheelite filtrate.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Maximum for any 1 Maximum for monthly average mg/kg (pounds per million pounds) of synthetic scheelite produced 21.330 10.170 Nickel 9.164 6.165 Ammonia (as N) 2,221.000 976.300 Cobalt 45.984 20.160 Tungsten 57.980 25.820			
pounds of synthetic scheelite produced	Pollutant or pollutant property	for any 1	for monthly
Nickel 9.164 6.165 Ammonia (as N) 2,221.000 976.300 Cobalt 45.984 20.160		pounds) of synthet	
Ammonia (as N) 2,221.000 976.300 Cobalt 45.984 20.160			
Cobalt			
Tungsten 57.980 25.820			20.160
	Tungsten	57.980	25.820

(e) Tungsten carbide leaching wet air pollution control.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungsten ca bide scrap leached	
Copper	2.241	1.068
Nickel	0.963	0.648
Ammonia (as N)	233.400	102.600
Cobalt	4.833	2.119
Tungsten	6.093	2.714

(f) Tungsten carbide wash water.

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PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten car bide produced	
Copper	10.670 4.583 1,111.000 22.999 29.000	5.083 3.083 488.300 10.083 12.920

(g) Cobalt sludge leaching wet air pollution control.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million f cobalt pro- cobalt sludge
Copper	45.800 19.680 4,770.000 98.756 124.500	21.830 13.240 2,097.000 43.295 55.460

(h) Crystallization decant.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	53.310	25.410
Nickel	22.910	15.410
Ammonia (as N)	5,552,000	2,441.000
Cobalt	114.954	50.397
Tungsten	144.900	64.560

(i) Acid wash decant.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produce	
Copper	24.400 10.490 2,541.000 52.611 66.340	11.630 7.053 1,117.000 23.065 29.550

(j) Cobalt hydroxide filtrate.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	72.510 31.160 7,551.000 156.346 197.100	34.560 20.960 3,320.000 68.543 87.800

(k) Cobalt hydroxide filter cake wash.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	139.600 59.970 14,530.000 300.094 379.400	66.510 40.430 6,389.000 131.932 169.000
		1

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31718, 31719, Aug. 3, 1990]

§421.317 [Reserved]

Subpart AD—Secondary Uranium Subcategory

Source: 50 FR 38392, Sept. 20, 1985, unless otherwise noted.

§ 421.320 Applicability: Description of the secondary uranium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of uranium (including depleted uranium) by secondary uranium facilities.

§ 421.321 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.322 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practiacable technology currently available:

(a) Refinery sump filtrate.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium	32.270	13.200
Copper	139.300	73.340
Nickel	140.800	93.140
Fluoride	2,567.000	1,459.000
Total suspended solids	3,007.000	1,430.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(b) Slag leach reslurry.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	2.009	0.822
Copper	8.675	4.566
Nickel	8.767	5.799
Fluoride	159.800	90.860
Total suspended solids	187.200	89.040
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Solvent extraction raffinate filtrate.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	2.802	1.146
Copper	12.100	6.369
Nickel	12.230	8.089
Fluoride	222.900	126.700
Total suspended solids	261.100	124.200
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Digestion wet air pollution con-

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium prod essed in the refinery	
Chromium (total)	0.000 0.000 0.000 0.000 0.000 (1)	0.000 0.000 0.000 0.000 0.000

¹ Within the range of 7.5 to 10.0 at all times.

(e) Evaporation and denitration wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium tr oxide produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Hydrofluorination alkaline scrubber.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.009	0.004
Copper	0.038	0.020
Nickel	0.038	0.025
Fluoride	0.700	0.398
Total suspended solids	0.820	0.390
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Hydrofluorination water scrubber.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet rafluoride produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Magnesium reduction and casting floor wash.

BPT LIMITATIONS FOR THE SECONDARY
URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium pro duced by magnesium re duction	
Chromium (total)	0.013	0.005
Copper	0.057	0.030
Nickel	0.058	0.038
Fluoride	1.054	0.599
Total suspended solids	1.234	0.587
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.084	0.035
Copper	0.365	0.192
Nickel	0.369	0.244
Fluoride	6.720	3.821
Total suspended solids	7.872	3.744
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.323 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Refinery sump filtrate.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium prod essed in the refinery	
Chromium (total)	27.14 93.88 40.34 2,567.00	11.00 44.74 27.14 1,459.00

(b) Slag leach reslurry.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	1.689 5.844 2.511 159.800	0.685 2.785 1.689 90.860

⁽i) Laundry wastewater.

(c) Solvent extraction raffinate filtrate.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	2.357 8.152 3.503 222.900	0.955 3.885 2.357 126.700

(d) Digestion wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Evaporation and denitration wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tri oxide produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(f) Hydrofluorination alkaline scrubber.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.007 0.026	0.003 0.012

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	0.011 0.700	0.007 0.398

(g) Hydrofluorination water scrubber.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium te rafluoride produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(h) Magnesium reduction and casting floor wash.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro duced by magnesium re duction	
Chromium (total)	0.011 0.039 0.017 1.054	0.005 0.018 0.011 0.599

(i) Laundry wastewater.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million uranium pro- nagnesium re-
Chromium (total)	0.036	0.014
Copper	0.123	0.059
Nickel	0.053	0.036
Fluoride	3.360	1.910

§ 421.324 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Refinery sump filtrate.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc- essed in the refinery	
Chromium (total)	27.14	11.00
Copper	93.88	44.74
Nickel	40.34	27.14
Fluoride	2,567.00	1,459.00
Total suspended solids	1,100.00	880.10
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Slag leach reslurry.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc- essed in the refinery	
Chromium (total)	1.689	0.685
Copper	5.844	2.785
Nickel	2.511	1.689
Fluoride	159.800	90.860
Total suspended solids	68.490	54.790
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Solvent extraction raffinate filtrate.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of uranium prod essed in the refinery	
2.357 8.152 3.503 222.900 95.540	0.955 3.885 2.357 126.700 76.430
	mg/kg (pound pounds) of essed in the 2.357 8.152 3.503 222.900 95.540

¹ Within the range of 7.5 to 10.0 at all times.

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(d) Digestion wet air pollution control.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium prod essed in the refinery	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Evaporation and denitration wet air pollution control $% \left(1\right) =\left(1\right) \left(1\right) \left($

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of oxide produ	uranium tri-
Chromium (total)	0.000 0.000	0.000 0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Hydrofluorination alkaline scrubber

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.007	0.003
Copper	0.026	0.012
Nickel	0.011	0.007
Fluoride	0.700	0.398
Total suspended solids	0.300	0.240
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Hydrofluorination water scrubber.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet rafluoride produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Magnesium reduction and casting floor wash.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.011 0.039 0.017 1.054 0.452 (¹)	0.005 0.018 0.011 0.599 0.361 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Laundry wastewater.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.036 0.123 0.053 3.360 1.440 (¹)	0.014 0.059 0.036 1.910 1.152 (¹)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

§ 421.325 [Reserved]

§ 421.326 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must

comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary uranium process wastewater introduced into a POTW shall not exceed the following values:

(a) Refinery sump filtrate.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium prod essed in the refinery	
Chromium (total)	27.14	11.00
Copper	93.88	44.74
Nickel	40.34	27.14
Fluoride	2,567.00	1,459.00

(b) Slag leach reslurry.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium prod essed in the refinery	
Chromium (total)	1.689	0.685
Copper	5.844	2.785
Nickel	2.511	1.689
Fluoride	159.800	90.860

(c) Solvent extraction raffinate filtrate.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	2.357	0.955
Copper	8.152	3.885
Nickel	3.503	2.357
Fluoride	222.900	126.700

 $\left(d\right)$ Digestion wet air pollution control.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Evaporation and denitration wet air pollution control.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tri- oxide produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(f) Hydrofluorination alkaline scrubber.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.007 0.026 0.011 0.700	0.003 0.012 0.007 0.398

(g) Hydrofluorination water scrubber.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

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(h) Magnesium reduction and casting floor wash.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium to oxide produced	
Chromium (total)	0.011 0.039 0.017 1.054	0.005 0.018 0.011 0.599

(i) Laundry wastewater.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium pro duced by magnesium re duction	
Chromium (total)	0.036 0.123 0.053 3.360	0.014 0.059 0.036 1.910

§421.327 [Reserved]

Subpart AE—Primary Zirconium and Hafnium Subcategory

Source: 50 FR 38395, Sept. 20, 1985, unless otherwise noted.

§ 421.330 Applicability: Description of the primary zirconium and hafnium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of zirconium or hafnium at primary zirconium and hafnium facilities. There are two levels of BPT, BAT, NSPS, PSES and PSNS provisions for this subpart. Facilities which only produce zirconium or zirconium/nickel alloys by magnesium reduction of zirconium dioxide are exempt from regulations. All other facilities are subject to these regulations.

§ 421.331 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and

methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.332 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Sand drying wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.250	0.102
Cyanide (total)	0.165	0.068
Lead	0.239	0.114
Nickel	1.091	0.721
Ammonia (as N)	75.710	33.280
Total suspended solids	23.290	11.080
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Sand chlorination off-gas wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of zironium d oxide and hafnium diox ide produced	
19 130	7.825
12.610	5.216
18.260	8.694
83.460	55.210
5,795.000	2,547.000
1,782.000	847.700
(¹)	(1)
	for any 1 day mg/kg (pount pounds) of oxide and ide produce 19.130 12.610 18.260 83.460 5,795.000 1,782.000

¹ Within the range of 7.5 to 10.0 at all times.

(c) Sand chlorination area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox- ide produced	
Chromium (total)	3.751	1.534
Cyanide (total)	2.472	1.023
Lead	3.580	1.705
Nickel	16.370	10.830
Ammonia (as N)	1,136.000	449.500
Total suspended solids	349.500	166.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) $SiCl_4$ purification wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	3.299	1.350
Cyanide (total)	2.174	0.900
Lead	3.149	1.500
Nickel	14.400	9.522
Ammonia (as N)	999.500	439.400
Total suspended solids	307.400	146.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Feed makeup wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		zirconium di- hafnium diox-
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	2.501 1.648 2.387 10.910 757.500 233.000 (¹)	1.023 0.682 1.137 7.217 333.000 110.800

¹ Within the range of 7.5 to 10.0 at all times.

(f) Iron extraction (MIBK) steam stripper bottoms.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	0.987	0.404
Cyanide (total)	0.651	0.269
Lead	0.942	0.449
Nickel	4.308	2.850
Ammonia (as N)	299.100	131.500
Total suspended solids	92.000	43.760
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Zirconium filtrate.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	17.070	6.982
Cyanide (total)	11.250	4.655
Lead	16.290	7.758
Nickel	74.480	49.260
Ammonia (as N)	5,171.000	2,273.000
Total suspended solids	1,590.000	756.400
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(h) Hafnium filtrate.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.000	0.000
Chromium (total)		
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million zirconium di- hafnium diox- ed
Chromium (total)	3.959	1.619
Cyanide (total)	2.609	1.080
Lead	3.779	1.799
Nickel	17.270	11.430
Ammonia (as N)	1,199.000	527.200
Total suspended solids	368.900	175.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Pure chlorination wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	16.860 11.110 16.090 73.570 5,108.000 1,571.000 (¹)	6.897 4.598 7.663 48.660 2,245.000 747.200 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Reduction area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	1.622 1.069 1.548 7.077 491.300 151.100	0.663 0.442 0.737 4.681 216.000 71.880

¹ Within the range of 7.5 to 10.0 at all times.

(1) Magnesium recovery off-gas wet air pollution control.

⁽i) Calcining caustic wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids	9.123 6.013 8.708 39.810 2,764.000 850.100	3.732 2.488 4.147 26.330 1,215.000 404.300
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Magnesium recovery area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	5.068 3.340 4.838 22.110 1,535.000 472.200 (¹)	2.073 1.382 2.304 14.630 675.000 224.600 (1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0. .

(n) Zirconium chip crushing wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	0.000	0.000
, ,	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(o\right)$ Acid leachate from zirconium metal production.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure zir- conium produced	
Chromium (total)	12.970 8.545 12.380 56.570 3,928.000 1,208.000	5.304 3.536 5.893 37.420 1,727.000 574.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{array}{cccc} (p) & Acid & leachate & from & zirconium \\ alloy & production. \end{array}$

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millic pounds) of zirconiu contained in alloys pr duced	
6.939	2.839
4.574	1.893
6.624	3.154
30.280	20.030
2,102.000	924.200
646.600	307.600
(¹)	(1)
	for any 1 day mg/kg (pounds) contained iduced 6.939 4.574 6.624 30.280 2,102.000 646.600

¹ Within the range of 7.5 to 10.0 at all times.

(q) Leaching rinse water from zirconium metal production.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiur produced	
Chromium (total)	25.930 17.090 24.750 113.200 7,856.000 2,416.000	10.610 7.072 11.790 74.840 3,453.000 1,149.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0.

(r) Leaching rinse water from zirconium alloy production.

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BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium in alloys produced	
Chromium (total)	0.347 0.229 0.331 1.515 105.200	0.142 0.095 0.158 1.002 46.240
Total suspended solidspH	32.350 (¹)	15.390 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.333 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Sand drying wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly
	day	average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280

(b) Sand chlorination off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	16.080 8.694 12.170 23.910 5,795.000	6.521 3.478 5.651 16.080 2,547.000

(c) Sand chlorination area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	3.154 1.705 2.387 4.688 1,136.000	1.279 0.682 1.108 3.154 499.500

(d) $SiCl_4$ purification wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	2.774 1.500 2.099 4.124 999.500	1.125 0.600 0.975 2.774 439.400

(e) Feed makeup wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	2.103 1.137 1.591 3.126 757.500	0.852 0.455 0.739 2.103 333.000

(f) Iron extraction (MIBK) steam stripper bottoms.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.830 0.449 0.628 1.234 299.100	0.337 0.180 0.292 0.830 131.500

(g) Zirconium filtrate.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	14.350 7.758 10.860 21.330 5,171.000	5.819 3.103 5.043 14.350 2,273.00

(h) Hafnium filtrate.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	0.000	0.000

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Calcining caustic wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	3.329 1.799 2.519 4.948 1,199.000	1.350 0.720 1.170 3.329 527.200

(j) Pure chlorination wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiur and hafnium produced	
Chromium (total)	14.180 7.663 10.730 21.070 5,108.000	5.748 3.065 4.981 14.180 2,245.000

(k) Reduction area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	1.364 0.737 1.032 2.027 491.300	0.553 0.295 0.479 1.364 216.000

(1) Magnesium recovery off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	7.671 4.147 5.805 11.400 2,764.000	3.110 1.659 2.695 7.671 1,215.000

(m) Magnesium recovery area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of zirconium and hafnium produced	
4.262 2.304 3.225 6.335 1,535.000	1.728 0.921 1.497 4.262 675.000
	mg/kg (pound pounds) and hafniur 4.262 2.304 3.225 6.335

(n) Zirconium chip crushing wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000

 $\begin{array}{cccc} \hbox{(o)} & Acid & leachate & from & zirconium \\ metal & production. \end{array}$

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per milli pounds) of pure z conium produced	
10.900	4.420
5.893	2.357
8.250	3.831
16.210	10.900
3,928.000	1,674.000
	mg/kg (pound pounds) conium processing 10.900 5.893 8.250 16.210

(p) Acid leachate from zirconium alloy production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiun contained in alloys pro duced	
Chromium (total)	5.835	2.366
Cyanide (total)	3.154	1.262
Lead	4.416	2.050
Nickel	8.674	5.835
Ammonia (as N)	2,102.000	895.000

(q) Leaching rinse water from zirconium metal production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure zinconium produced	
Chromium (total)	21.810 11.790 16.500 32.410	8.840 4.715 7.661 21.810
Ammonia (as N)	7,856.000	3,453.000

(r) Leaching rinse water from zirconium alloy production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium contained in alloys pro- duced	
Chromium (total)	0.292	0.118
Cyanide (total)	0.158	0.063
Lead	0.221	0.103
Nickel	0.434	0.292
Ammonia (as N)	105.200	46.240

§ 421.334 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Sand drying wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day Maximum average	
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280
Total suspended solids	8.520	6.816
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Sand chlorination of f-gas wet air pollution control. $\,$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total) Cyanide (total)	16.080 8.694	6.521 3.478
Lead	12.170	5.651
Nickel	23.910	16.080
Ammonia (as N)	5,795.000	2,547.000
Total suspended solids	652.100	521.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Sand chlorination area-vent wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	3.154	1.279
Cyanide (total)	1.705	0.682
Lead	2.387	1.108
Nickel	4.688	3.154
Ammonia (as N)	1,136.000	499.500
Total suspended solids	127.900	102.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) SiC_{14} purification wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of zirconium o oxide and hafnium dio ide produced	
Chromium (total)	2.774	1.125
Cyanide (total)	1.500	0.600
Lead	2.099	0.975
Nickel	4.124	2.774
Ammonia (as N)	999.500	439.400
Total suspended solids	112.500	89.980
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Feed makeup wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	2.103	0.852
Cyanide (total)	1.137	0.455
Lead	1.591	0.739
Nickel	3.126	2.103
Ammonia (as N)	757.500	333.000
Total suspended solids	85.250	68.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Iron extraction (MIBK) steam stripper bottoms.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.830	0.337
Cyanide (total)	0.449	0.180
Lead	0.628	0.292
Nickel	1.234	0.830
Ammonia (as N)	299.100	131.500
Total suspended solids	33.660	26.930
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Zirconium filtrate.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	14.350	5.819
Cyanide (total) Lead	7.758 10.860	3.103 5.043
	21.330	14.350
Nickel		
Ammonia (as N)	5,171.000	2,273.000
Total suspended solids	581.900	465.500
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Hafnium filtrate.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

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NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	3.329	1.350
Cyanide (total)	1.799	0.720
Lead	2.519	1.170
Nickel	4.948	3.329
Ammonia (as N)	1,199.000	527.200
Total suspended solids	135.000	108.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Pure chlorination wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	14.180 7.663 10.730 21.070 5,108.000 574.800 (¹)	5.748 3.065 4.981 14.180 2,245.000 459.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Reduction area-vent wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N) Total suspended solids pH	1.364 0.737 1.032 2.027 491.300 55.290	0.553 0.295 0.479 1.364 216.000 44.230

¹ Within the range of 7.5 to 10.0 at all times.

(1) Magnesium recovery off-gas wet air pollution control.

⁽i) Calcining caustic wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of and hafnium	of zirconium
Chromium (total)	7.671 4.147 5.805 11.400 2,764.000 404.300	3.110 1.659 2.695 7.671 1,215.000 248.800

¹ Within the range of 7.5 to 10.0 at all times.

(m) Magnesium recovery area-vent wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	4.262 2.304 3.225 6.335 1,535.000 172.800 (¹)	1.728 0.921 1.497 4.262 675.000 138.200

¹ Within the range of 7.5 to 10.0 at all times.

(n) Zirconium chip crushing west air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	0.000 0.000 0.000	0.000 0.000 0.000
Nickel	0.000	0.000
Total suspended solidspH	0.000 (¹)	0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(o\right)$ Acid leachate from zirconium metal production.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure zir- conium produced	
Chromium (total)	10.900 5.893 8.250 16.210 3,928.000 442.000	4.420 2.357 3.831 10.900 1,674.000 353.600

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{array}{cccc} (p) & Acid & leachate & from & zirconium \\ alloy & production. \end{array}$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of zirconiu contained in alloys pr duced	
Chromium (total)	5.835	2.366
Cyanide (total)	3.154	1.262
Lead	4.416	2.050
Nickel	8.674	5.835
Ammonia (as N)	2,102.000	895.800
Total suspended solids	236.600	189.300
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(q) Leaching rinse water from zirconium metal production.

NSPS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of pure zi conium produced	
Chromium (total)	21.810 11.790 16.500 32.410 7,856.000 884.000	8.840 4.715 7.661 21.810 3,453.000 707.200

 $^{^{\}mbox{\tiny 1}}$ Within the range of 7.5 to 10.0 at all times.

(r) Leaching rinse water from zirconium alloy production.

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NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium contained in alloys pro- duced	
Charamium (tatal)	0.000	0.118
Chromium (total)	0.292	
Cyanide (total)	0.158	0.063
Lead	0.221	0.103
Nickel	0.434	0.292
Ammonia (as N)	105.200	46.240
Total suspended solids	11.840	9.468
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§421.335 [Reserved]

§ 421.336 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary zirconium and hafnium process wastewater introduced into a POTW shall not exceed the following values:

(a) Sand drying wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day	average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280

(b) Sand chlorination off-gas wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	16.080	6.521
Cyanide (total)	8.690	3.478
Lead	12.170	5.651
Nickel	23.910	16.080
Ammonia (as N)	5,795.000	2,547.000

(c) Sand chlorination area vent wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	3.154	1.279
Cyanide (total)	1.705	0.682
Lead	2.387	1.108
Nickel	4.688	3.154
Ammonia (as N)	1,136.000	499.500

(d) $SiCl_4$ purification wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	2.774 1.500 2.099 4.124 999.500	1.125 0.600 0.975 2.774 439.400

(e) Feed makeup wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	2.103 1.137 1.591 3.126 757.500	0.852 0.455 0.739 2.103 333.000

 $\begin{array}{ccc} \hbox{(f)} & \hbox{Iron extraction (MIBK)} & \hbox{steam} \\ \hbox{stripper bottoms}. \end{array}$

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.830 0.449 0.628 1.234 299.100	0.337 0.180 0.292 0.830 131.500

(g) Zirconium filtrate.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	14.350 7.758 10.860 21.340 5,171.000	5.819 3.103 5.043 14.350 2,273.000

(h) Hafnium filtrate.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium of oxide and hafnium dion ide produced	
Chromium (total)	0.000	0.000

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Calcining caustic wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	3.329 1.799 2.519 4.948 1,199.000	1.350 0.720 1.170 3.329 527.200

(j) Pure chlorination wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiur and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	14.180 7.663 10.730 21.007 5,108.000	5.748 3.065 4.981 14.180 2,245,000

(k) Reduction area-vent wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of Zirconiu and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	1.364 0.737 1.032 2.027 491.300	0.553 0.295 0.479 1.364 216.000

(1) Magnesium recovery off-gas wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	7.671 4.147 5.805 11.400 2,764.000	3.110 1.659 2.695 7.671 1,215.000

(m) Magnesium recovery area-vent wet air pollution control.

PSNS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of zirconium n produced
Chromium (total)	4.262	1.728
Cyanide (total)	2.304	0.921
Lead	3.225	1.497
Nickel	6.335	4.262
Ammonia (as N)	1,535,000	675.00

(n) Zirconium chip crushing wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000

(o) Acid leachate from zirconium metal production.

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PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of pure zi conium produced	
Chromium (total)	10.900	4.420
Cyanide (total)	5.893	2.357
Lead	8.250	3.831
Nickel	16.210	10.900
Ammonia (as N)	3,928.000	1,674.00

(p) Acid leachate from zirconium alloy production.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of zirconiu contained in alloys pro duced	
Chromium (total)	5.835	2.366
Cyanide (total)	3.154	1.262
Lead	4.416	2.050
Nickel	8.674	5.835
Ammonia (as N)	2,102.000	895.800

(q) Leaching rinse water from zirconium metal production.

PSNS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure zin conium produced	
Chromium (total)	21.810	8.840
Cyanide (total)	11.790	4.715
Lead	16.500	7.661
Nickel	32.410	21.810
Ammonia (as N)	7,856.000	3,453.000

(r) Leaching rinse water from zirconium alloy production.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium contained in alloys pro- duced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	0.292 0.158 0.221 0.434 105.200	0.118 0.063 0.103 0.292 46.240

§421.337 [Reserved]

PART 422—PHOSPHATE MANUFAC-TURING POINT SOURCE CAT-**EGORY**

Subpart A—Phosphorus Production Subcategory

Sec.

422.10 Applicability; description of the phosphorus production subcategory.

Subpart B—Phosphorus Consuming Subcategory

422.20 Applicability; description of the phosphorus consuming subcategory.

Subpart C—Phosphate Subcategory

422.30 Applicability; description of the phosphate subcategory.

Subpart D—Defluorinated Phosphate Rock Subcategory

422.40 Applicability; description of the defluorinated phosphate rock subcategory

422.41 Specialized definitions.

422.42 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

422.43 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

422.44 [Reserved] 422.45 Standards of performance for new sources.

422.46 [Reserved]

422.47 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology.

Subpart E—Defluorinated Phosphoric Acid Subcategory

422.50 Applicability; description of the defluorinated phosphoric acid subcategory.

422.51 Specialized definitions.

422.52 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

422.53 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

422.54 [Reserved]

422.55 Standards of performance for new sources

422.56 [Reserved]

422.57 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control tech-

Subpart F—Sodium Phosphates Subcategory

422.60 Applicability: description of the sodium phosphates subcategory.

422.61 Specialized definitions.

Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

422.63 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

422.64 [Reserved]

422.65 Standards of performance for new sources.

422.66 [Reserved]

422.67 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology.

AUTHORITY: Secs. 301, 304 (b) and (c), 306 (b) and (c), and 307(c) of the Federal Water Pollution Control Act, as amended: 33 U.S.C. 1251, 1311, 1314 (b) and (c), 1316 (b) and (c), 1317(c); 86 Stat. 816 et seq., Pub. L. 92-500; 91 Stat. 1567, Pub. L. 95-217.

Source: 39 FR 6582, Feb. 20, 1974, unless otherwise noted.